

# Shark Tank India Exploratory Data Analysis



## Goal of Project

The goal of the Exploratory Data Analysis (EDA) project on "Shark Tank India" is to uncover patterns, trends, and insights within the show's dataset to enhance understanding of its investment dynamics and entrepreneurial ecosystem. This includes analyzing investment trends, entrepreneur demographics, industry preferences, deal structures, and factors contributing to successful pitches. The project also aims to examine the participation and preferences of individual sharks, as well as perform sentiment analysis on pitches and negotiations. By achieving these objectives, the project will provide valuable insights into "Shark Tank India."

guiding future participants and stakeholders in understanding the factors that drive success on the show.

## Source of Data : Kaggle

## Work Flow

- Step 1 : Importing the required libraries
- Step 2 : Loading the Dataset
- Step 3 : Basic Understanding of Data
- Step 4 : Shark Tank India Data set Description
- Step 5 :Checking columns Dtypes
- Step 6 : Basic information of Data
- Step 7 : Preprocessing
- Step 8 : Analysis and Insights

### Step 1 : Importing the required libraries

```
In [1]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import re
from wordcloud import WordCloud
pd.set_option('display.max_rows',None)
pd.set_option('display.max_columns',None)
```

### Step 2 : Loading the Dataset

```
In [2]: df=pd.read_csv("C:\\\\Users\\\\Rahul\\\\Desktop\\\\data learing folder\\\\python\\\\Pa
```

### Step 3 : Basic Understanding of Data

## Preview of data

In [3]: df.head(3)

Out[3]:

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	Startup Name	Industry
0	1	20-Dec-21	04-Feb-22	1	Badlegi Business Ki Tasveer	1	BluePineFoods	Vegetables/Food
1	1	20-Dec-21	04-Feb-22	1	Badlegi Business Ki Tasveer	2	BoozScooters	Vehicles/Electronics
2	1	20-Dec-21	04-Feb-22	1	Badlegi Business Ki Tasveer	3	HeartUpMySleeves	Beauty/Personal Care

◀ ▶

**Previewing the data allows us to understand the structure of the dataset, including the number of columns, their names, and the type of data stored in each column. This understanding helps you plan your analysis effectively and choose appropriate techniques and tools.**

## How big is the Data

In [4]: df.shape

Out[4]: (320, 64)

**Observation :**

- There are total **64 Attributes/column** available in the dataset.
- There are total **320 Record/rows** available in the dataset.

## Fecthing the columns name

In [5]: df.columns

```
Out[5]: Index(['Season Number', 'Season Start', 'Season End', 'Episode Number',
   'Episode Title', 'Pitch Number', 'Startup Name', 'Industry',
   'Business Description', 'Company Website', 'Number of Presenters',
   'Male Presenters', 'Female Presenters', 'Transgender Presenters',
   'Couple Presenters', 'Pitchers Average Age', 'Started in',
   'Pitchers City', 'Pitchers State', 'Yearly Revenue', 'Monthly Sale
   s',
   'Gross Margin', 'Net Margin', 'Original Ask Amount',
   'Original Offered Equity', 'Valuation Requested', 'Received Offe
   r',
   'Accepted Offer', 'Total Deal Amount', 'Total Deal Equity',
   'Total Deal Debt', 'Debt Interest', 'Deal Valuation',
   'Number of sharks in deal', 'Deal has conditions', 'Has Patents',
   'Ashneer Investment Amount', 'Ashneer Investment Equity',
   'Ashneer Debt Amount', 'Namita Investment Amount',
   'Namita Investment Equity', 'Namita Debt Amount',
   'Anupam Investment Amount', 'Anupam Investment Equity',
   'Anupam Debt Amount', 'Vineeta Investment Amount',
   'Vineeta Investment Equity', 'Vineeta Debt Amount',
   'Aman Investment Amount', 'Aman Investment Equity', 'Aman Debt Amo
   unt',
   'Peyush Investment Amount', 'Peyush Investment Equity',
   'Peyush Debt Amount', 'Ghazal Investment Amount',
   'Ghazal Investment Equity', 'Ghazal Debt Amount',
   'Amit Investment Amount', 'Amit Investment Equity', 'Amit Debt Amo
   unt',
   'Guest Investment Amount', 'Guest Investment Equity',
   'Guest Debt Amount', 'Guest Name'],
  dtype='object')
```

## Step 4 : Shark Tank India Data set Description

Shark Tank India - Season 1 and Season 2 information, with 64 fields/columns and 320+ records.

One season of  SHARKTANK INDIA IN was broadcasted on SonyLiv OTT/Sony TV.

Here is the data dictionary for Shark Tank (India) season's dataset.

- Season Number - Season number
- Season Start - Season first aired date
- Season End - Season last aired date
- Episode Number - Episode number within the season
- Episode Title - Episode title in SonyLiv
- Pitch Number - Overall pitch number
- Startup Name - Startup company name
- Industry - Industry name or type
- Business Description - Business Description
- Company Website - Company Website URL
- Number of Presenters - Number of presenters
- Male Presenters - Number of male presenters

- Female Presenters - Number of female presenters
- Transgender Presenters - Number of transgender/LGBTQ presenters
- Couple Presenters - Are presenters wife/husband ? 1-yes, 0-no
- Pitchers Average Age - Pitchers average age, <30 young, 30-50 middle, >50 old
- Started in - Year in which startup was started/incorporated
- Pitchers City - Presenter's town/city
- Pitchers State - Indian state pitcher hails from
- Yearly Revenue - Yearly revenue, in lakhs INR, -1 means negative revenue, 0 means pre-revenue
- Monthly Sales - Total monthly sales, in lakhs
- Gross Margin - Gross margin/profit of company, in percentages
- Net Margin - Net margin/profit of company, in percentages
- Original Ask Amount - Original Ask Amount, in lakhs INR
- Original Offered Equity - Original Offered Equity, in percentages
- Valuation Requested - Valuation Requested, in lakhs INR
- Received Offer - Received offer or not, 1-received, 0-not received
- Accepted Offer - Accepted offer or not, 1-accepted, 0-rejected
- Total Deal Amount - Total Deal Amount, in lakhs INR
- Total Deal Equity - Total Deal Equity, in percentages
- Total Deal Debt - Total Deal Debt, in lakhs INR
- Debt Interest - Debt interest rate, in percentages
- Deal Valuation - Deal Valuation, in lakhs INR
- Number of sharks in deal - Number of sharks involved in deal
- Deal has conditions - Deal has conditions or not?
- Has Patents - Pitcher has Patents? 1-yes, 0-no
- Ashneer Investment Amount - Ashneer Investment Amount, in lakhs INR
- Ashneer Investment Equity - Ashneer Investment Equity, in percentages
- Ashneer Debt Amount - Ashneer Debt Amount, in lakhs INR
- Namita Investment Amount - Namita Investment Amount, in lakhs INR
- Namita Investment Equity - Namita Investment Equity, in percentages
- Namita Debt Amount - Namita Debt Amount, in lakhs INR
- Anupam Investment Amount - Anupam Investment Amount, in lakhs INR
- Anupam Investment Equity - Anupam Investment Equity, in percentages
- Anupam Debt Amount - Anupam Debt Amount, in lakhs INR
- Vineeta Investment Amount - Vineeta Investment Amount, in lakhs INR
- Vineeta Investment Equity - Vineeta Investment Equity, in percentages
- Vineeta Debt Amount - Vineeta Debt Amount, in lakhs INR
- Aman Investment Amount - Aman Investment Amount, in lakhs INR
- Aman Investment Equity - Aman Investment Equity, in percentages
- Aman Debt Amount - Aman Debt Amount, in lakhs INR
- Peyush Investment Amount - Peyush Investment Amount, in lakhs INR
- Peyush Investment Equity - Peyush Investment Equity, in percentages
- Peyush Debt Amount - Peyush Debt Amount, in lakhs INR
- Ghazal Investment Amount - Ghazal Investment Amount, in lakhs INR
- Ghazal Investment Equity - Ghazal Investment Equity, in percentages

- Ghazal Debt Amount - Ghazal Debt Amount, in lakhs INR
- Amit Investment Amount - Amit Investment Amount, in lakhs INR
- Amit Investment Equity - Amit Investment Equity, in percentages
- Amit Debt Amount - Amit Debt Amount, in lakhs INR
- Guest Investment Amount - Guest Investment Amount, in lakhs INR
- Guest Investment Equity - Guest Investment Equity, in percentages
- Guest Debt Amount - Guest Debt Amount, in lakhs INR
- Guest Name - Name of Guest

## Step 5 :Checking columns Dtypes

```
In [6]: df1=df.dtypes.to_frame()  
df1
```

Out[6]:

	<b>0</b>
<b>Season Number</b>	int64
<b>Season Start</b>	object
<b>Season End</b>	object
<b>Episode Number</b>	int64
<b>Episode Title</b>	object
<b>Pitch Number</b>	int64
<b>Startup Name</b>	object
<b>Industry</b>	object
<b>Business Description</b>	object
<b>Company Website</b>	object
<b>Number of Presenters</b>	int64
<b>Male Presenters</b>	float64
<b>Female Presenters</b>	float64
<b>Transgender Presenters</b>	float64
<b>Couple Presenters</b>	float64
<b>Pitchers Average Age</b>	object
<b>Started in</b>	float64
<b>Pitchers City</b>	object
<b>Pitchers State</b>	object
<b>Yearly Revenue</b>	float64
<b>Monthly Sales</b>	float64
<b>Gross Margin</b>	float64
<b>Net Margin</b>	float64
<b>Original Ask Amount</b>	float64
<b>Original Offered Equity</b>	float64
<b>Valuation Requested</b>	float64
<b>Received Offer</b>	int64
<b>Accepted Offer</b>	float64
<b>Total Deal Amount</b>	float64
<b>Total Deal Equity</b>	float64
<b>Total Deal Debt</b>	float64
<b>Debt Interest</b>	float64
<b>Deal Valuation</b>	float64
<b>Number of sharks in deal</b>	float64
<b>Deal has conditions</b>	object
<b>Has Patents</b>	float64

0

<b>Ashneer Investment Amount</b>	float64
<b>Ashneer Investment Equity</b>	float64
<b>Ashneer Debt Amount</b>	float64
<b>Namita Investment Amount</b>	float64
<b>Namita Investment Equity</b>	float64
<b>Namita Debt Amount</b>	float64
<b>Anupam Investment Amount</b>	float64
<b>Anupam Investment Equity</b>	float64
<b>Anupam Debt Amount</b>	float64
<b>Vineeta Investment Amount</b>	float64
<b>Vineeta Investment Equity</b>	float64
<b>Vineeta Debt Amount</b>	float64
<b>Aman Investment Amount</b>	float64
<b>Aman Investment Equity</b>	float64
<b>Aman Debt Amount</b>	float64
<b>Peyush Investment Amount</b>	float64
<b>Peyush Investment Equity</b>	float64
<b>Peyush Debt Amount</b>	float64
<b>Ghazal Investment Amount</b>	float64
<b>Ghazal Investment Equity</b>	float64
<b>Ghazal Debt Amount</b>	float64
<b>Amit Investment Amount</b>	float64
<b>Amit Investment Equity</b>	float64
<b>Amit Debt Amount</b>	float64
<b>Guest Investment Amount</b>	float64
<b>Guest Investment Equity</b>	float64
<b>Guest Debt Amount</b>	float64
<b>Guest Name</b>	object

In [7]: df1.rename(columns={0:"datatypes"}).T

Out[7]:

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	Startup Name	Industry
<b>datatypes</b>	int64	object	object	int64	object	int64	object	object

**Observation :**

- The columns dtypes are of mix types, we have float,object and int.
- Column name **started in** indicates started year that should not be in float, so we have to convert it into int.
- Coluns name **Has patents, Male presenters,Female Presenters,Transgender presenters, couple presenters** should not be in float, so we have to convert them into int

## Step 6 : Basic information of Data

```
In [8]: df.info()
```

```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 320 entries, 0 to 319
Data columns (total 64 columns):
 #   Column           Non-Null Count Dtype  
--- 
 0   Season Number    320 non-null   int64  
 1   Season Start     320 non-null   object  
 2   Season End       320 non-null   object  
 3   Episode Number   320 non-null   int64  
 4   Episode Title    320 non-null   object  
 5   Pitch Number     320 non-null   int64  
 6   Startup Name     320 non-null   object  
 7   Industry          320 non-null   object  
 8   Business Description 320 non-null   object  
 9   Company Website   309 non-null   object  
 10  Number of Presenters 320 non-null   int64  
 11  Male Presenters   281 non-null   float64 
 12  Female Presenters 149 non-null   float64 
 13  Transgender Presenters 3 non-null   float64 
 14  Couple Presenters  315 non-null   float64 
 15  Pitchers Average Age 320 non-null   object  
 16  Started in        184 non-null   float64 
 17  Pitchers City      320 non-null   object  
 18  Pitchers State     320 non-null   object  
 19  Yearly Revenue    134 non-null   float64 
 20  Monthly Sales     140 non-null   float64 
 21  Gross Margin       85 non-null   float64 
 22  Net Margin         24 non-null   float64 
 23  Original Ask Amount 320 non-null   float64 
 24  Original Offered Equity 320 non-null   float64 
 25  Valuation Requested 320 non-null   float64 
 26  Received Offer     320 non-null   int64  
 27  Accepted Offer     216 non-null   float64 
 28  Total Deal Amount  176 non-null   float64 
 29  Total Deal Equity  176 non-null   float64 
 30  Total Deal Debt   39 non-null   float64 
 31  Debt Interest      23 non-null   float64 
 32  Deal Valuation     176 non-null   float64 
 33  Number of sharks in deal 176 non-null   float64 
 34  Deal has conditions 8 non-null   object  
 35  Has Patents         7 non-null   float64 
 36  Ashneer Investment Amount 21 non-null   float64 
 37  Ashneer Investment Equity 21 non-null   float64 
 38  Ashneer Debt Amount  2 non-null   float64 
 39  Namita Investment Amount 66 non-null   float64 
 40  Namita Investment Equity 66 non-null   float64 
 41  Namita Debt Amount  13 non-null   float64 
 42  Anupam Investment Amount 51 non-null   float64 
 43  Anupam Investment Equity 51 non-null   float64 
 44  Anupam Debt Amount  4 non-null   float64 
 45  Vineeta Investment Amount 43 non-null   float64 
 46  Vineeta Investment Equity 43 non-null   float64 
 47  Vineeta Debt Amount  9 non-null   float64 
 48  Aman Investment Amount 73 non-null   float64 
 49  Aman Investment Equity 73 non-null   float64 
 50  Aman Debt Amount    8 non-null   float64 
 51  Peyush Investment Amount 69 non-null   float64 
 52  Peyush Investment Equity 69 non-null   float64 
 53  Peyush Debt Amount   11 non-null   float64 
 54  Ghazal Investment Amount 8 non-null   float64 
 55  Ghazal Investment Equity 8 non-null   float64 
 56  Ghazal Debt Amount   0 non-null   float64 
 57  Amit Investment Amount 21 non-null   float64 
 58  Amit Investment Equity 21 non-null   float64

```

```

59 Amit Debt Amount      4 non-null    float64
60 Guest Investment Amount 2 non-null    float64
61 Guest Investment Equity 2 non-null    float64
62 Guest Debt Amount     2 non-null    float64
63 Guest Name            2 non-null    object
dtypes: float64(47), int64(5), object(12)
memory usage: 160.1+ KB

```

### Observation :

- Some columns have missing values.
- Columns of float types : 47
- Columns of int types : 5
- Columns of Object types : 12
- Memory occupied by the dataset : 160 KB

## Step 7 : Preprocessing

### Checking missing value of each columns

```
In [9]: df.isnull().sum().to_frame().rename(columns={0:"missing value count"})
```

Out[9]:

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	Startup Name	Industry
missing value count	0	0	0	0	0	0	0	0

### Checking missing value % of each columns

```
In [10]: for i in df.columns:
    if df[i].isnull().sum()>0:
        print(i,"----->>>",df[i].isnull().sum()*100/d
```

Company Website ----->>> 3.4375 %  
 Male Presenters ----->>> 12.1875 %  
 Female Presenters ----->>> 53.4375 %  
 Transgender Presenters ----->>> 99.0625 %  
 Couple Presenters ----->>> 1.5625 %  
 Started in ----->>> 42.5 %  
 Yearly Revenue ----->>> 58.125 %  
 Monthly Sales ----->>> 56.25 %  
 Gross Margin ----->>> 73.4375 %  
 Net Margin ----->>> 92.5 %  
 Accepted Offer ----->>> 32.5 %  
 Total Deal Amount ----->>> 45.0 %  
 Total Deal Equity ----->>> 45.0 %  
 Total Deal Debt ----->>> 87.8125 %  
 Debt Interest ----->>> 92.8125 %  
 Deal Valuation ----->>> 45.0 %  
 Number of sharks in deal ----->>> 45.0 %  
 Deal has conditions ----->>> 97.5 %  
 Has Patents ----->>> 97.8125 %  
 Ashneer Investment Amount ----->>> 93.4375 %  
 Ashneer Investment Equity ----->>> 93.4375 %  
 Ashneer Debt Amount ----->>> 99.375 %  
 Namita Investment Amount ----->>> 79.375 %  
 Namita Investment Equity ----->>> 79.375 %  
 Namita Debt Amount ----->>> 95.9375 %  
 Anupam Investment Amount ----->>> 84.0625 %  
 Anupam Investment Equity ----->>> 84.0625 %  
 Anupam Debt Amount ----->>> 98.75 %  
 Vineeta Investment Amount ----->>> 86.5625 %  
 Vineeta Investment Equity ----->>> 86.5625 %  
 Vineeta Debt Amount ----->>> 97.1875 %  
 Aman Investment Amount ----->>> 77.1875 %  
 Aman Investment Equity ----->>> 77.1875 %  
 Aman Debt Amount ----->>> 97.5 %  
 Peyush Investment Amount ----->>> 78.4375 %  
 Peyush Investment Equity ----->>> 78.4375 %  
 Peyush Debt Amount ----->>> 96.5625 %  
 Ghazal Investment Amount ----->>> 97.5 %  
 Ghazal Investment Equity ----->>> 97.5 %  
 Ghazal Debt Amount ----->>> 100.0 %  
 Amit Investment Amount ----->>> 93.4375 %  
 Amit Investment Equity ----->>> 93.4375 %  
 Amit Debt Amount ----->>> 98.75 %  
 Guest Investment Amount ----->>> 99.375 %  
 Guest Investment Equity ----->>> 99.375 %  
 Guest Debt Amount ----->>> 99.375 %  
 Guest Name ----->>> 99.375 %

## Checking the missing values of those columns which are of object types

```
In [11]: for i in df.columns:
    if df[i].isnull().sum()>0 and df[i].dtypes=="object":
        print(i,"----->>>",df[i].isnull().sum()*100/
```

Company Website ----->>> 3.4375 %  
 Deal has conditions ----->>> 97.5 %  
 Guest Name ----->>> 99.375 %

Since , Company websites is not relevant with respect to analysis so we drop it

```
In [12]: df.drop(columns=["Company Website"], inplace=True)
```

## Imputing the missing values in deal has condition column

```
In [13]: df["Deal has conditions"].unique()
```

```
Out[13]: array([nan, 'yes'], dtype=object)
```

Here, nan is basically the deal has no condition so we will fill the nan with **no**.

```
In [14]: df["Deal has conditions"] = df["Deal has conditions"].fillna("no")
```

### verifying the result:

```
In [15]: df["Deal has conditions"].unique()
```

```
Out[15]: array(['no', 'yes'], dtype=object)
```

## Imputing the missing value in Guest name column

```
In [16]: df["Guest Name"].isnull().sum()
```

```
Out[16]: 318
```

```
In [17]: df["Guest Name"].unique()
```

```
Out[17]: array([nan, 'Vikas'], dtype=object)
```

```
In [18]: df["Guest Name"] = df["Guest Name"].fillna("not present")
```

### verifying the result :

```
In [19]: df["Guest Name"].isnull().sum()
```

```
Out[19]: 0
```

## Missing value % of columns which are of numeric types

```
In [20]: for i in df.columns:
    if df[i].isnull().sum() > 0 and (df[i].dtypes == "float64" or df[i].dtypes == "int64"):
        print(i, "----->>>", df[i].isnull().sum() * 100 / df[i].shape[0])
```

Male Presenters ----->>> 12.1875 %  
 Female Presenters ----->>> 53.4375 %  
 Transgender Presenters ----->>> 99.0625 %  
 Couple Presenters ----->>> 1.5625 %  
 Started in ----->>> 42.5 %  
 Yearly Revenue ----->>> 58.125 %  
 Monthly Sales ----->>> 56.25 %  
 Gross Margin ----->>> 73.4375 %  
 Net Margin ----->>> 92.5 %  
 Accepted Offer ----->>> 32.5 %  
 Total Deal Amount ----->>> 45.0 %  
 Total Deal Equity ----->>> 45.0 %  
 Total Deal Debt ----->>> 87.8125 %  
 Debt Interest ----->>> 92.8125 %  
 Deal Valuation ----->>> 45.0 %  
 Number of sharks in deal ----->>> 45.0 %  
 Has Patents ----->>> 97.8125 %  
 Ashneer Investment Amount ----->>> 93.4375 %  
 Ashneer Investment Equity ----->>> 93.4375 %  
 Ashneer Debt Amount ----->>> 99.375 %  
 Namita Investment Amount ----->>> 79.375 %  
 Namita Investment Equity ----->>> 79.375 %  
 Namita Debt Amount ----->>> 95.9375 %  
 Anupam Investment Amount ----->>> 84.0625 %  
 Anupam Investment Equity ----->>> 84.0625 %  
 Anupam Debt Amount ----->>> 98.75 %  
 Vineeta Investment Amount ----->>> 86.5625 %  
 Vineeta Investment Equity ----->>> 86.5625 %  
 Vineeta Debt Amount ----->>> 97.1875 %  
 Aman Investment Amount ----->>> 77.1875 %  
 Aman Investment Equity ----->>> 77.1875 %  
 Aman Debt Amount ----->>> 97.5 %  
 Peyush Investment Amount ----->>> 78.4375 %  
 Peyush Investment Equity ----->>> 78.4375 %  
 Peyush Debt Amount ----->>> 96.5625 %  
 Ghazal Investment Amount ----->>> 97.5 %  
 Ghazal Investment Equity ----->>> 97.5 %  
 Ghazal Debt Amount ----->>> 100.0 %  
 Amit Investment Amount ----->>> 93.4375 %  
 Amit Investment Equity ----->>> 93.4375 %  
 Amit Debt Amount ----->>> 98.75 %  
 Guest Investment Amount ----->>> 99.375 %  
 Guest Investment Equity ----->>> 99.375 %  
 Guest Debt Amount ----->>> 99.375 %

**Though some columns has missing value %  
 Greater than 70% but we won't drop them as they  
 are important columns so fill the missing values of  
 numeric columna as per domain knowledge**

Taking **Male presenters, Female presenters, Transgender presenters and couple presenters** columns

```
In [21]: df[["Number of Presenters", "Male Presenters", "Female Presenters", "T
```

Out[21]:

	Number of Presenters	Male Presenters	Female Presenters	Transgender Presenters	Couple Presenters
0	3	2.0	1.0	NaN	0.0
1	1	1.0	NaN	NaN	0.0
2	1	NaN	1.0	NaN	0.0
3	2	2.0	NaN	NaN	0.0
4	4	1.0	3.0	NaN	1.0
5	2	1.0	1.0	NaN	1.0
6	2	NaN	2.0	NaN	0.0
7	1	1.0	NaN	NaN	0.0
8	2	2.0	NaN	NaN	0.0
9	2	1.0	1.0	NaN	1.0
10	2	NaN	2.0	NaN	0.0
11	1	1.0	NaN	NaN	0.0
12	3	3.0	NaN	NaN	0.0
13	2	2.0	NaN	NaN	0.0
14	2	1.0	1.0	NaN	1.0
15	2	1.0	1.0	NaN	1.0
16	2	1.0	1.0	NaN	1.0
17	1	NaN	1.0	NaN	0.0
18	2	1.0	1.0	NaN	1.0
19	1	1.0	NaN	NaN	0.0
20	2	1.0	1.0	NaN	NaN
21	3	1.0	2.0	NaN	0.0
22	1	1.0	NaN	NaN	0.0
23	2	1.0	1.0	NaN	0.0
24	4	4.0	NaN	NaN	0.0
25	4	4.0	NaN	NaN	0.0
26	2	1.0	1.0	NaN	1.0
27	2	1.0	1.0	NaN	1.0
28	2	NaN	2.0	NaN	0.0
29	3	3.0	NaN	NaN	0.0
30	3	2.0	1.0	NaN	NaN
31	1	1.0	NaN	NaN	0.0
32	3	3.0	NaN	NaN	0.0
33	2	1.0	1.0	NaN	0.0
34	1	NaN	1.0	NaN	0.0

	Number of Presenters	Male Presenters	Female Presenters	Transgender Presenters	Couple Presenters
35	2	1.0	1.0	NaN	1.0
36	1	1.0	NaN	NaN	0.0
37	4	3.0	1.0	NaN	1.0
38	2	NaN	2.0	NaN	0.0
39	1	1.0	NaN	NaN	0.0
40	1	1.0	NaN	NaN	0.0
41	3	2.0	1.0	NaN	0.0
42	2	NaN	2.0	NaN	0.0
43	3	3.0	NaN	NaN	0.0
44	2	2.0	NaN	NaN	0.0
45	3	3.0	NaN	NaN	0.0
46	2	1.0	1.0	NaN	1.0
47	3	2.0	1.0	NaN	0.0
48	2	1.0	1.0	NaN	0.0
49	4	1.0	3.0	NaN	1.0
50	3	3.0	NaN	NaN	0.0
51	2	1.0	1.0	NaN	1.0
52	2	1.0	1.0	NaN	1.0
53	1	1.0	NaN	NaN	0.0
54	3	2.0	1.0	NaN	0.0
55	1	NaN	1.0	NaN	0.0
56	2	2.0	NaN	NaN	0.0
57	1	NaN	1.0	NaN	0.0
58	2	2.0	NaN	NaN	0.0
59	2	2.0	NaN	NaN	0.0
60	1	1.0	NaN	NaN	0.0
61	3	3.0	NaN	NaN	0.0
62	2	1.0	1.0	NaN	0.0
63	2	2.0	NaN	NaN	0.0
64	3	3.0	NaN	NaN	0.0
65	2	1.0	1.0	NaN	0.0
66	1	1.0	NaN	NaN	0.0
67	1	NaN	1.0	NaN	0.0
68	3	3.0	NaN	NaN	0.0
69	1	NaN	1.0	NaN	0.0

	Number of Presenters	Male Presenters	Female Presenters	Transgender Presenters	Couple Presenters
70	2	2.0	NaN	NaN	0.0
71	3	3.0	NaN	NaN	0.0
72	1	NaN	1.0	NaN	0.0
73	1	1.0	NaN	NaN	0.0
74	2	1.0	1.0	NaN	1.0
75	2	1.0	1.0	NaN	0.0
76	1	NaN	1.0	NaN	0.0
77	2	2.0	NaN	NaN	0.0
78	2	1.0	1.0	NaN	0.0
79	1	NaN	1.0	NaN	0.0
80	4	4.0	NaN	NaN	0.0
81	4	4.0	NaN	NaN	0.0
82	1	NaN	1.0	NaN	0.0
83	3	3.0	NaN	NaN	0.0
84	2	2.0	NaN	NaN	0.0
85	1	1.0	NaN	NaN	0.0
86	1	1.0	NaN	NaN	0.0
87	6	6.0	NaN	NaN	0.0
88	3	2.0	1.0	NaN	0.0
89	3	2.0	1.0	NaN	0.0
90	2	1.0	1.0	NaN	1.0
91	2	2.0	NaN	NaN	0.0
92	1	1.0	NaN	NaN	0.0
93	2	1.0	1.0	NaN	1.0
94	2	2.0	NaN	NaN	0.0
95	1	1.0	NaN	NaN	0.0
96	2	2.0	NaN	NaN	0.0
97	2	1.0	1.0	NaN	1.0
98	1	1.0	NaN	NaN	0.0
99	2	NaN	2.0	NaN	0.0
100	2	1.0	1.0	NaN	0.0
101	3	3.0	NaN	NaN	0.0
102	2	1.0	1.0	NaN	1.0
103	2	NaN	2.0	NaN	0.0
104	2	2.0	NaN	NaN	0.0

	Number of Presenters	Male Presenters	Female Presenters	Transgender Presenters	Couple Presenters
105	2	2.0	NaN	NaN	0.0
106	2	1.0	1.0	NaN	1.0
107	2	1.0	1.0	NaN	1.0
108	2	1.0	1.0	NaN	1.0
109	4	4.0	NaN	NaN	0.0
110	2	2.0	NaN	NaN	0.0
111	2	2.0	NaN	NaN	0.0
112	1	NaN	1.0	NaN	0.0
113	2	1.0	1.0	NaN	1.0
114	1	1.0	NaN	NaN	0.0
115	1	1.0	NaN	NaN	0.0
116	3	1.0	2.0	NaN	0.0
117	3	2.0	1.0	NaN	0.0
118	1	1.0	NaN	NaN	0.0
119	2	2.0	NaN	NaN	0.0
120	3	2.0	1.0	NaN	1.0
121	2	2.0	NaN	NaN	0.0
122	2	1.0	1.0	NaN	0.0
123	2	1.0	NaN	1.0	0.0
124	1	1.0	NaN	NaN	0.0
125	1	1.0	NaN	NaN	0.0
126	2	1.0	1.0	NaN	NaN
127	1	1.0	NaN	NaN	0.0
128	2	1.0	1.0	NaN	1.0
129	1	NaN	1.0	NaN	0.0
130	2	1.0	1.0	NaN	1.0
131	1	1.0	NaN	NaN	0.0
132	4	3.0	NaN	1.0	0.0
133	3	3.0	NaN	NaN	0.0
134	2	1.0	1.0	NaN	0.0
135	2	2.0	NaN	NaN	0.0
136	3	2.0	1.0	NaN	0.0
137	2	1.0	1.0	NaN	1.0
138	1	1.0	NaN	NaN	0.0
139	2	2.0	NaN	NaN	0.0

	Number of Presenters	Male Presenters	Female Presenters	Transgender Presenters	Couple Presenters
140	3	2.0	1.0	NaN	0.0
141	3	2.0	1.0	NaN	1.0
142	1	NaN	1.0	NaN	0.0
143	2	2.0	NaN	NaN	0.0
144	2	1.0	1.0	NaN	NaN
145	2	1.0	1.0	NaN	1.0
146	2	2.0	NaN	NaN	0.0
147	2	2.0	NaN	NaN	0.0
148	2	1.0	1.0	NaN	1.0
149	2	1.0	1.0	NaN	0.0
150	2	2.0	NaN	NaN	0.0
151	3	2.0	1.0	NaN	1.0
152	2	NaN	2.0	NaN	0.0
153	2	2.0	NaN	NaN	0.0
154	2	2.0	NaN	NaN	0.0
155	2	1.0	1.0	NaN	1.0
156	2	2.0	NaN	NaN	0.0
157	2	2.0	NaN	NaN	0.0
158	2	NaN	2.0	NaN	0.0
159	3	3.0	NaN	NaN	0.0
160	2	1.0	1.0	NaN	1.0
161	2	2.0	NaN	NaN	0.0
162	3	2.0	1.0	NaN	0.0
163	2	1.0	1.0	NaN	1.0
164	2	1.0	1.0	NaN	1.0
165	1	1.0	NaN	NaN	0.0
166	3	3.0	NaN	NaN	0.0
167	3	2.0	1.0	NaN	0.0
168	2	1.0	1.0	NaN	0.0
169	3	3.0	NaN	NaN	0.0
170	2	1.0	1.0	NaN	1.0
171	2	1.0	1.0	NaN	0.0
172	3	3.0	NaN	NaN	0.0
173	1	1.0	NaN	NaN	0.0
174	2	NaN	2.0	NaN	0.0

	Number of Presenters	Male Presenters	Female Presenters	Transgender Presenters	Couple Presenters
175	1	NaN	1.0	NaN	0.0
176	2	1.0	1.0	NaN	1.0
177	1	NaN	1.0	NaN	0.0
178	2	2.0	NaN	NaN	0.0
179	2	2.0	NaN	NaN	0.0
180	2	2.0	NaN	NaN	0.0
181	2	2.0	NaN	NaN	0.0
182	4	4.0	NaN	NaN	0.0
183	2	1.0	1.0	NaN	0.0
184	2	2.0	NaN	NaN	0.0
185	1	1.0	NaN	NaN	0.0
186	1	1.0	NaN	NaN	0.0
187	3	2.0	1.0	NaN	0.0
188	2	NaN	2.0	NaN	0.0
189	2	1.0	1.0	NaN	1.0
190	2	1.0	1.0	NaN	0.0
191	2	1.0	1.0	NaN	1.0
192	4	4.0	NaN	NaN	0.0
193	2	2.0	NaN	NaN	0.0
194	2	2.0	NaN	NaN	0.0
195	2	1.0	1.0	NaN	1.0
196	3	3.0	NaN	NaN	0.0
197	2	2.0	NaN	NaN	0.0
198	4	3.0	1.0	NaN	0.0
199	5	3.0	2.0	NaN	1.0
200	2	2.0	NaN	NaN	0.0
201	2	NaN	2.0	NaN	0.0
202	1	1.0	NaN	NaN	0.0
203	3	3.0	NaN	NaN	0.0
204	2	1.0	1.0	NaN	1.0
205	1	1.0	NaN	NaN	0.0
206	1	1.0	NaN	NaN	0.0
207	3	2.0	1.0	NaN	0.0
208	3	3.0	NaN	NaN	0.0
209	1	1.0	NaN	NaN	0.0

	Number of Presenters	Male Presenters	Female Presenters	Transgender Presenters	Couple Presenters
<b>210</b>	3	3.0	NaN	NaN	0.0
<b>211</b>	1	NaN	1.0	NaN	0.0
<b>212</b>	2	1.0	1.0	NaN	1.0
<b>213</b>	2	NaN	2.0	NaN	0.0
<b>214</b>	3	2.0	1.0	NaN	1.0
<b>215</b>	3	1.0	1.0	1.0	0.0
<b>216</b>	3	2.0	1.0	NaN	0.0
<b>217</b>	1	1.0	NaN	NaN	0.0
<b>218</b>	2	2.0	NaN	NaN	0.0
<b>219</b>	1	1.0	NaN	NaN	0.0
<b>220</b>	3	1.0	2.0	NaN	0.0
<b>221</b>	1	1.0	NaN	NaN	0.0
<b>222</b>	2	2.0	NaN	NaN	0.0
<b>223</b>	3	2.0	1.0	NaN	0.0
<b>224</b>	2	2.0	NaN	NaN	0.0
<b>225</b>	1	1.0	NaN	NaN	0.0
<b>226</b>	1	1.0	NaN	NaN	0.0
<b>227</b>	2	1.0	1.0	NaN	0.0
<b>228</b>	2	NaN	2.0	NaN	0.0
<b>229</b>	2	2.0	NaN	NaN	0.0
<b>230</b>	1	1.0	NaN	NaN	0.0
<b>231</b>	2	2.0	NaN	NaN	0.0
<b>232</b>	2	1.0	1.0	NaN	1.0
<b>233</b>	3	1.0	2.0	NaN	1.0
<b>234</b>	2	1.0	1.0	NaN	1.0
<b>235</b>	2	2.0	NaN	NaN	0.0
<b>236</b>	2	2.0	NaN	NaN	0.0
<b>237</b>	1	NaN	1.0	NaN	0.0
<b>238</b>	1	1.0	NaN	NaN	0.0
<b>239</b>	2	2.0	NaN	NaN	0.0
<b>240</b>	2	1.0	1.0	NaN	0.0
<b>241</b>	1	1.0	NaN	NaN	0.0
<b>242</b>	3	3.0	NaN	NaN	0.0
<b>243</b>	1	1.0	NaN	NaN	0.0
<b>244</b>	3	3.0	NaN	NaN	0.0

	Number of Presenters	Male Presenters	Female Presenters	Transgender Presenters	Couple Presenters
245	1	1.0	NaN	NaN	0.0
246	2	2.0	NaN	NaN	0.0
247	3	2.0	1.0	NaN	1.0
248	2	1.0	1.0	NaN	0.0
249	2	1.0	1.0	NaN	1.0
250	2	2.0	NaN	NaN	0.0
251	2	2.0	NaN	NaN	0.0
252	3	2.0	1.0	NaN	0.0
253	2	2.0	NaN	NaN	0.0
254	2	2.0	NaN	NaN	0.0
255	2	2.0	NaN	NaN	0.0
256	2	NaN	2.0	NaN	0.0
257	3	3.0	NaN	NaN	0.0
258	2	2.0	NaN	NaN	0.0
259	2	NaN	2.0	NaN	0.0
260	2	2.0	NaN	NaN	0.0
261	1	1.0	NaN	NaN	0.0
262	2	1.0	1.0	NaN	1.0
263	3	2.0	1.0	NaN	0.0
264	2	2.0	NaN	NaN	0.0
265	2	1.0	1.0	NaN	1.0
266	2	2.0	NaN	NaN	0.0
267	2	2.0	NaN	NaN	0.0
268	1	1.0	NaN	NaN	0.0
269	2	2.0	NaN	NaN	0.0
270	1	1.0	NaN	NaN	0.0
271	3	3.0	NaN	NaN	0.0
272	1	1.0	NaN	NaN	0.0
273	2	1.0	1.0	NaN	0.0
274	3	3.0	NaN	NaN	0.0
275	2	2.0	NaN	NaN	0.0
276	1	1.0	NaN	NaN	0.0
277	3	3.0	NaN	NaN	0.0
278	2	2.0	NaN	NaN	0.0
279	2	2.0	NaN	NaN	0.0

	Number of Presenters	Male Presenters	Female Presenters	Transgender Presenters	Couple Presenters
280	4	4.0	NaN	NaN	0.0
281	2	2.0	NaN	NaN	0.0
282	4	2.0	2.0	NaN	1.0
283	2	1.0	1.0	NaN	0.0
284	2	2.0	NaN	NaN	0.0
285	2	2.0	NaN	NaN	0.0
286	2	2.0	NaN	NaN	0.0
287	1	1.0	NaN	NaN	0.0
288	1	1.0	NaN	NaN	0.0
289	3	1.0	2.0	NaN	1.0
290	2	2.0	NaN	NaN	0.0
291	2	2.0	NaN	NaN	0.0
292	3	1.0	2.0	NaN	1.0
293	3	3.0	NaN	NaN	0.0
294	2	2.0	NaN	NaN	0.0
295	1	NaN	1.0	NaN	0.0
296	2	1.0	1.0	NaN	0.0
297	3	3.0	NaN	NaN	0.0
298	2	2.0	NaN	NaN	0.0
299	2	2.0	NaN	NaN	0.0
300	1	1.0	NaN	NaN	0.0
301	4	4.0	NaN	NaN	0.0
302	2	2.0	NaN	NaN	0.0
303	5	5.0	NaN	NaN	0.0
304	2	NaN	2.0	NaN	0.0
305	2	1.0	1.0	NaN	0.0
306	2	1.0	1.0	NaN	1.0
307	1	1.0	NaN	NaN	0.0
308	2	1.0	1.0	NaN	1.0
309	2	2.0	NaN	NaN	0.0
310	1	NaN	1.0	NaN	0.0
311	1	NaN	1.0	NaN	0.0
312	3	3.0	NaN	NaN	0.0
313	3	2.0	1.0	NaN	0.0
314	1	NaN	1.0	NaN	0.0

	Number of Presenters	Male Presenters	Female Presenters	Transgender Presenters	Couple Presenters
315	1	1.0	NaN	NaN	0.0
316	2	1.0	1.0	NaN	0.0
317	2	1.0	1.0	NaN	1.0
318	2	1.0	1.0	NaN	1.0
319	2	1.0	1.0	NaN	NaN

From this above output we can see that nan indicates 0 ,so we fill nan with 0 in Male presenters,Female presenters,Transgender presenters and couple presenters columns

```
In [22]: presenters=["Male Presenters","Female Presenters","Couple Presenters"]
for i in presenters:
    df[i].fillna(0,inplace=True)
```

### Verifying the results

```
In [23]: df[presenters].isnull().sum().sum()
```

```
Out[23]: 0
```

```
In [24]: df[presenters].dtypes
```

```
Out[24]: Male Presenters      float64
Female Presenters      float64
Couple Presenters      float64
Transgender Presenters      float64
dtype: object
```

Since the datatypes of above is float they should be in int as presenters count would be discrete so convert them in int

```
In [25]: df[presenters]=df[presenters].astype(int)
```

```
In [26]: df[presenters].dtypes
```

```
Out[26]: Male Presenters      int32
Female Presenters      int32
Couple Presenters      int32
Transgender Presenters      int32
dtype: object
```

Taking **Started in** columns

```
In [27]: df["Started in"].dtypes
```

```
Out[27]: dtype('float64')
```

```
In [28]: df["Started in"].isnull().sum()
```

```
Out[28]: 136
```

```
In [29]: df["Started in"].unique()
```

```
In [29]: array([2016., 2017., 2021., 2019., 2015., 2005., 2020., nan, 201
3.,
       2018., 2014., 2012., 2022., 2006., 2010.])
```

**fill nan in started in columns with 0 as nan indicates brands did'nt mention their start up year or some pitchers were about to start**

```
In [30]: df["Started in"] = df["Started in"].fillna(0)
```

```
In [31]: df["Started in"].unique()
```

```
Out[31]: array([2016., 2017., 2021., 2019., 2015., 2005., 2020., 0., 201
3.,
       2018., 2014., 2012., 2022., 2006., 2010.])
```

**Convert the started in columns in int as year should be in discrete type as we change it in int**

```
In [32]: df["Started in"] = df["Started in"].astype(int)
```

**Verifiying the result**

```
In [33]: df["Started in"].dtypes
```

```
Out[33]: dtype('int32')
```

```
In [34]: df["Started in"].isnull().sum()
```

```
Out[34]: 0
```

Taking **Yearly Revenue ,Monthly Sales , Gross Margin ,Net Margin** columns

**checking the correlation to see relation between them**

```
In [35]: df[['Yearly Revenue', 'Monthly Sales', 'Gross Margin', 'Net Margin']]
```

	Yearly Revenue	Monthly Sales	Gross Margin	Net Margin
<b>Yearly Revenue</b>	1.000000	0.605750	0.173523	-0.181061
<b>Monthly Sales</b>	0.605750	1.000000	-0.156421	-0.192526
<b>Gross Margin</b>	0.173523	-0.156421	1.000000	0.133646
<b>Net Margin</b>	-0.181061	-0.192526	0.133646	1.000000

from this we can see there a moderate positive correlation between monthly sales and yearly sales and with rest columns theere is no relation

```
In [36]: df[['Yearly Revenue', 'Monthly Sales', 'Gross Margin', 'Net Margin']]
```

Out[36]:	Yearly Revenue	Monthly Sales	Gross Margin	Net Margin
0	95.0	8.000	NaN	NaN
1	4.0	0.400	NaN	NaN
2	NaN	2.000	NaN	NaN
3	700.0	NaN	48.0	NaN
4	30.0	NaN	NaN	NaN
5	79.0	NaN	NaN	NaN
6	25.0	NaN	NaN	NaN
7	100.0	NaN	NaN	NaN
8	NaN	20.000	NaN	NaN
9	NaN	4.000	75.0	NaN
10	NaN	5.000	18.0	NaN
11	NaN	15.000	70.0	NaN
12	NaN	0.010	NaN	NaN
13	NaN	5.500	NaN	NaN
14	50.0	NaN	NaN	NaN
15	NaN	6.000	NaN	NaN
16	115.0	NaN	NaN	NaN
17	107.0	NaN	NaN	NaN
18	1300.0	NaN	NaN	NaN
19	NaN	1.000	NaN	NaN
20	NaN	NaN	NaN	NaN
21	NaN	6.000	NaN	NaN
22	NaN	20.600	51.0	NaN
23	NaN	NaN	NaN	NaN
24	0.0	NaN	NaN	NaN
25	NaN	NaN	NaN	NaN
26	300.0	25.000	50.0	NaN
27	NaN	160.000	3.0	NaN
28	NaN	0.002	70.0	NaN
29	130.0	2.800	30.0	NaN
30	NaN	NaN	NaN	NaN
31	80.0	33.000	NaN	NaN
32	NaN	6.000	NaN	NaN
33	NaN	0.320	115.0	NaN
34	NaN	16.000	80.0	NaN
35	NaN	NaN	NaN	NaN

	Yearly Revenue	Monthly Sales	Gross Margin	Net Margin
36	NaN	NaN	NaN	NaN
37	NaN	4.000	NaN	NaN
38	NaN	NaN	NaN	NaN
39	180.0	NaN	NaN	NaN
40	90.0	NaN	NaN	NaN
41	NaN	16.000	NaN	NaN
42	0.0	NaN	NaN	NaN
43	1000.0	NaN	NaN	NaN
44	NaN	NaN	NaN	NaN
45	100.0	NaN	95.0	NaN
46	NaN	20.000	NaN	NaN
47	NaN	NaN	NaN	NaN
48	NaN	10.000	NaN	NaN
49	NaN	3.000	55.0	NaN
50	NaN	3.500	NaN	NaN
51	150.0	NaN	NaN	NaN
52	110.0	NaN	NaN	NaN
53	250.0	NaN	NaN	NaN
54	NaN	4.500	NaN	NaN
55	NaN	2.000	NaN	NaN
56	NaN	NaN	NaN	NaN
57	116.0	NaN	50.0	NaN
58	NaN	1.000	NaN	NaN
59	55.0	NaN	NaN	NaN
60	180.0	NaN	NaN	NaN
61	NaN	0.040	NaN	NaN
62	NaN	40.000	NaN	NaN
63	35.0	NaN	NaN	NaN
64	NaN	23.000	NaN	NaN
65	360.0	0.250	69.0	NaN
66	NaN	1.000	NaN	NaN
67	NaN	3.000	NaN	NaN
68	NaN	50.000	62.0	NaN
69	NaN	0.750	150.0	NaN
70	372.0	NaN	70.0	NaN
71	NaN	1.000	25.0	NaN

	<b>Yearly Revenue</b>	<b>Monthly Sales</b>	<b>Gross Margin</b>	<b>Net Margin</b>
<b>72</b>	NaN	16.000	34.0	NaN
<b>73</b>	NaN	200.000	25.0	NaN
<b>74</b>	2500.0	21.000	50.0	NaN
<b>75</b>	NaN	14.000	NaN	NaN
<b>76</b>	NaN	7.000	65.0	NaN
<b>77</b>	NaN	NaN	NaN	NaN
<b>78</b>	NaN	1.450	NaN	NaN
<b>79</b>	NaN	20.000	NaN	NaN
<b>80</b>	120.0	5.000	NaN	NaN
<b>81</b>	1000.0	NaN	38.0	NaN
<b>82</b>	NaN	3.500	NaN	NaN
<b>83</b>	0.0	NaN	NaN	NaN
<b>84</b>	NaN	12.000	NaN	NaN
<b>85</b>	180.0	4.000	NaN	NaN
<b>86</b>	NaN	NaN	NaN	NaN
<b>87</b>	NaN	7.500	40.0	NaN
<b>88</b>	NaN	22.000	NaN	NaN
<b>89</b>	208.0	NaN	44.0	NaN
<b>90</b>	200.0	30.000	30.0	NaN
<b>91</b>	50.0	NaN	25.0	NaN
<b>92</b>	NaN	6.000	NaN	NaN
<b>93</b>	272.0	NaN	30.0	NaN
<b>94</b>	1020.0	NaN	NaN	NaN
<b>95</b>	NaN	NaN	NaN	NaN
<b>96</b>	250.0	NaN	NaN	NaN
<b>97</b>	900.0	NaN	29.0	NaN
<b>98</b>	0.0	NaN	NaN	NaN
<b>99</b>	NaN	2.000	NaN	NaN
<b>100</b>	0.0	NaN	NaN	NaN
<b>101</b>	NaN	NaN	NaN	NaN
<b>102</b>	NaN	18.000	NaN	NaN
<b>103</b>	16.0	10.000	75.0	NaN
<b>104</b>	100.0	NaN	NaN	NaN
<b>105</b>	170.0	NaN	NaN	NaN
<b>106</b>	NaN	NaN	NaN	NaN
<b>107</b>	NaN	0.660	NaN	NaN

	Yearly Revenue	Monthly Sales	Gross Margin	Net Margin
108	NaN	2.000	NaN	NaN
109	NaN	NaN	NaN	NaN
110	NaN	NaN	NaN	NaN
111	NaN	3.000	70.0	NaN
112	NaN	NaN	NaN	NaN
113	NaN	12.000	40.0	NaN
114	0.0	NaN	NaN	NaN
115	NaN	2.000	NaN	NaN
116	108.0	NaN	NaN	NaN
117	60.0	NaN	30.0	NaN
118	NaN	7.000	NaN	NaN
119	7200.0	NaN	70.0	NaN
120	100.0	NaN	NaN	NaN
121	500.0	NaN	NaN	NaN
122	NaN	NaN	NaN	NaN
123	NaN	2.000	NaN	NaN
124	NaN	1.770	50.0	NaN
125	NaN	150.000	NaN	NaN
126	NaN	0.500	NaN	NaN
127	NaN	NaN	NaN	NaN
128	260.0	NaN	NaN	NaN
129	112.0	NaN	NaN	NaN
130	25.0	NaN	NaN	NaN
131	0.0	NaN	NaN	NaN
132	NaN	NaN	NaN	NaN
133	NaN	NaN	NaN	NaN
134	NaN	NaN	NaN	NaN
135	NaN	NaN	NaN	NaN
136	NaN	7.000	40.0	NaN
137	-1.0	NaN	NaN	NaN
138	NaN	NaN	NaN	NaN
139	NaN	NaN	NaN	NaN
140	-1.0	29.000	NaN	NaN
141	NaN	NaN	NaN	NaN
142	NaN	1.000	60.0	NaN
143	NaN	2.000	NaN	NaN

	Yearly Revenue	Monthly Sales	Gross Margin	Net Margin
144	NaN	NaN	NaN	NaN
145	200.0	NaN	NaN	NaN
146	NaN	NaN	NaN	NaN
147	NaN	NaN	NaN	NaN
148	NaN	NaN	NaN	NaN
149	NaN	100.000	NaN	NaN
150	NaN	NaN	NaN	NaN
151	1200.0	NaN	NaN	NaN
152	NaN	65.000	NaN	NaN
153	NaN	11.000	NaN	NaN
154	NaN	NaN	NaN	NaN
155	150.0	NaN	35.0	NaN
156	NaN	25.000	NaN	NaN
157	-1.0	NaN	45.0	NaN
158	NaN	NaN	NaN	NaN
159	NaN	NaN	NaN	NaN
160	NaN	NaN	NaN	NaN
161	NaN	NaN	NaN	NaN
162	NaN	NaN	NaN	NaN
163	NaN	12.000	60.0	NaN
164	NaN	46.000	NaN	NaN
165	-1.0	NaN	NaN	NaN
166	NaN	40.000	NaN	NaN
167	NaN	NaN	NaN	NaN
168	NaN	NaN	NaN	NaN
169	NaN	NaN	NaN	NaN
170	2400.0	NaN	NaN	NaN
171	NaN	NaN	NaN	NaN
172	NaN	NaN	NaN	NaN
173	NaN	NaN	NaN	NaN
174	NaN	NaN	NaN	NaN
175	NaN	NaN	NaN	NaN
176	350.0	NaN	NaN	NaN
177	NaN	NaN	NaN	NaN
178	100.0	NaN	NaN	NaN
179	NaN	130.000	NaN	NaN

	<b>Yearly Revenue</b>	<b>Monthly Sales</b>	<b>Gross Margin</b>	<b>Net Margin</b>
<b>180</b>	NaN	NaN	NaN	NaN
<b>181</b>	NaN	NaN	NaN	NaN
<b>182</b>	NaN	NaN	NaN	NaN
<b>183</b>	NaN	NaN	NaN	NaN
<b>184</b>	NaN	NaN	NaN	NaN
<b>185</b>	NaN	NaN	NaN	NaN
<b>186</b>	NaN	NaN	75.0	NaN
<b>187</b>	NaN	NaN	NaN	NaN
<b>188</b>	NaN	NaN	NaN	NaN
<b>189</b>	NaN	100.000	NaN	NaN
<b>190</b>	NaN	10.000	NaN	NaN
<b>191</b>	NaN	NaN	NaN	NaN
<b>192</b>	NaN	NaN	NaN	NaN
<b>193</b>	NaN	32.000	23.0	NaN
<b>194</b>	-1.0	25.000	54.0	NaN
<b>195</b>	NaN	NaN	80.0	NaN
<b>196</b>	-1.0	63.000	NaN	NaN
<b>197</b>	NaN	NaN	37.0	NaN
<b>198</b>	120.0	NaN	NaN	NaN
<b>199</b>	NaN	165.000	69.0	NaN
<b>200</b>	NaN	15.000	45.0	21.0
<b>201</b>	NaN	5.000	80.0	28.0
<b>202</b>	NaN	NaN	NaN	NaN
<b>203</b>	470.0	NaN	NaN	NaN
<b>204</b>	86.0	14.000	NaN	NaN
<b>205</b>	0.0	NaN	NaN	NaN
<b>206</b>	0.0	NaN	NaN	NaN
<b>207</b>	410.0	57.000	NaN	NaN
<b>208</b>	-1.0	NaN	NaN	NaN
<b>209</b>	NaN	NaN	NaN	NaN
<b>210</b>	NaN	NaN	45.0	NaN
<b>211</b>	NaN	14.000	NaN	NaN
<b>212</b>	NaN	194.000	NaN	NaN
<b>213</b>	33.0	8.700	75.0	NaN
<b>214</b>	-1.0	34.000	NaN	NaN
<b>215</b>	50.0	6.000	NaN	NaN

	Yearly Revenue	Monthly Sales	Gross Margin	Net Margin
216	NaN	NaN	NaN	NaN
217	NaN	40.000	NaN	NaN
218	53.0	NaN	20.0	NaN
219	-1.0	14.000	NaN	NaN
220	120.0	28.000	60.0	NaN
221	NaN	NaN	NaN	NaN
222	110.0	12.000	NaN	20.0
223	NaN	NaN	NaN	NaN
224	NaN	NaN	NaN	NaN
225	110.0	21.000	80.0	NaN
226	600.0	NaN	25.0	NaN
227	NaN	NaN	63.0	38.0
228	100.0	12.000	60.0	NaN
229	114.0	NaN	60.0	NaN
230	1600.0	NaN	90.0	NaN
231	1000.0	NaN	NaN	19.0
232	-1.0	25.000	NaN	NaN
233	117.0	NaN	NaN	NaN
234	16.0	3.500	40.0	25.0
235	300.0	33.000	NaN	30.0
236	NaN	700.000	NaN	NaN
237	115.0	20.000	50.0	18.0
238	NaN	14.000	NaN	NaN
239	NaN	NaN	NaN	NaN
240	NaN	NaN	NaN	NaN
241	-1.0	42.000	40.0	NaN
242	NaN	300.000	NaN	NaN
243	NaN	NaN	NaN	NaN
244	NaN	400.000	52.0	NaN
245	21.0	0.500	35.0	26.0
246	NaN	NaN	NaN	NaN
247	-1.0	80.000	NaN	NaN
248	NaN	NaN	50.0	35.0
249	NaN	NaN	55.0	NaN
250	NaN	NaN	NaN	NaN
251	NaN	NaN	25.0	5.0

	Yearly Revenue	Monthly Sales	Gross Margin	Net Margin
252	NaN	NaN	NaN	NaN
253	-1.0	11.000	NaN	NaN
254	-1.0	NaN	63.0	NaN
255	-1.0	NaN	57.0	NaN
256	180.0	NaN	83.0	20.0
257	0.0	264.000	NaN	NaN
258	240.0	NaN	NaN	24.0
259	NaN	3.000	60.0	40.0
260	NaN	NaN	NaN	NaN
261	4500.0	450.000	NaN	15.0
262	-1.0	NaN	NaN	NaN
263	110.0	NaN	NaN	NaN
264	0.0	NaN	NaN	NaN
265	120.0	NaN	NaN	NaN
266	NaN	NaN	NaN	NaN
267	270.0	42.000	56.0	13.0
268	110.0	5.000	NaN	NaN
269	1200.0	125.000	NaN	NaN
270	NaN	62.000	NaN	NaN
271	NaN	NaN	NaN	NaN
272	NaN	NaN	NaN	NaN
273	-1.0	24.000	NaN	NaN
274	NaN	24.000	NaN	NaN
275	256.0	20.000	70.0	3.0
276	NaN	NaN	56.0	35.0
277	0.0	NaN	NaN	NaN
278	NaN	NaN	NaN	40.0
279	-1.0	NaN	22.0	NaN
280	NaN	2.500	40.0	NaN
281	NaN	NaN	NaN	NaN
282	NaN	NaN	30.0	NaN
283	NaN	30.000	NaN	NaN
284	-1.0	NaN	NaN	NaN
285	75.0	NaN	45.0	35.0
286	54.0	25.000	NaN	NaN
287	120.0	22.000	50.0	8.0

	Yearly Revenue	Monthly Sales	Gross Margin	Net Margin
288	NaN	NaN	NaN	NaN
289	NaN	NaN	NaN	NaN
290	720.0	50.000	NaN	NaN
291	1005.0	80.000	80.0	NaN
292	-1.0	20.000	45.0	NaN
293	NaN	NaN	NaN	NaN
294	NaN	NaN	NaN	NaN
295	0.0	1.000	60.0	NaN
296	13.0	NaN	NaN	NaN
297	NaN	0.000	NaN	NaN
298	NaN	7.500	NaN	NaN
299	31.0	NaN	NaN	NaN
300	NaN	NaN	NaN	NaN
301	NaN	15.000	NaN	NaN
302	-1.0	NaN	56.0	NaN
303	NaN	42.000	NaN	NaN
304	NaN	NaN	NaN	NaN
305	140.0	NaN	NaN	NaN
306	5100.0	NaN	NaN	NaN
307	NaN	NaN	NaN	NaN
308	NaN	2.000	NaN	NaN
309	-1.0	145.000	65.0	NaN
310	NaN	4.200	NaN	NaN
311	NaN	NaN	NaN	NaN
312	-1.0	NaN	NaN	NaN
313	NaN	NaN	NaN	NaN
314	670.0	80.000	NaN	30.0
315	-1.0	NaN	NaN	NaN
316	-1.0	270.000	NaN	NaN
317	-1.0	NaN	NaN	NaN
318	NaN	NaN	50.0	18.0
319	1400.0	46.000	NaN	18.0

from this above output nan indicates not available info but these columns are in float so we fill them with 0

```
In [37]: df[["Yearly Revenue", "Monthly Sales", "Gross Margin", "Net Margin"]]=
```

## verifying the results

```
In [38]: df[["Yearly Revenue", "Monthly Sales", "Gross Margin", "Net Margin"]].
```

```
Out[38]: Yearly Revenue      0  
          Monthly Sales      0  
          Gross Margin       0  
          Net Margin         0  
          dtype: int64
```

Taking **Accepted offer** columns

```
In [39]: df["Accepted Offer"].unique()
```

```
Out[39]: array([ 1., nan,  0.])
```

```
In [40]: df[["Received Offer", "Accepted Offer"]]
```

Out[40]:

	Received Offer	Accepted Offer
<b>0</b>	1	1.0
<b>1</b>	1	1.0
<b>2</b>	1	1.0
<b>3</b>	1	1.0
<b>4</b>	0	NaN
<b>5</b>	0	NaN
<b>6</b>	1	0.0
<b>7</b>	1	1.0
<b>8</b>	1	1.0
<b>9</b>	1	1.0
<b>10</b>	1	1.0
<b>11</b>	1	1.0
<b>12</b>	1	1.0
<b>13</b>	0	NaN
<b>14</b>	0	NaN
<b>15</b>	1	1.0
<b>16</b>	1	1.0
<b>17</b>	0	NaN
<b>18</b>	1	1.0
<b>19</b>	1	0.0
<b>20</b>	1	1.0
<b>21</b>	1	0.0
<b>22</b>	1	1.0
<b>23</b>	1	1.0
<b>24</b>	1	1.0
<b>25</b>	1	1.0
<b>26</b>	1	1.0
<b>27</b>	1	0.0
<b>28</b>	1	1.0
<b>29</b>	1	1.0
<b>30</b>	1	1.0
<b>31</b>	0	NaN
<b>32</b>	1	1.0
<b>33</b>	1	1.0
<b>34</b>	1	1.0
<b>35</b>	0	NaN

	Received Offer	Accepted Offer
<b>36</b>	1	1.0
<b>37</b>	1	1.0
<b>38</b>	1	1.0
<b>39</b>	1	1.0
<b>40</b>	1	1.0
<b>41</b>	1	0.0
<b>42</b>	0	NaN
<b>43</b>	1	1.0
<b>44</b>	1	1.0
<b>45</b>	1	1.0
<b>46</b>	1	1.0
<b>47</b>	0	NaN
<b>48</b>	1	1.0
<b>49</b>	1	1.0
<b>50</b>	1	1.0
<b>51</b>	1	1.0
<b>52</b>	0	NaN
<b>53</b>	1	1.0
<b>54</b>	0	NaN
<b>55</b>	1	0.0
<b>56</b>	1	1.0
<b>57</b>	0	NaN
<b>58</b>	0	NaN
<b>59</b>	1	1.0
<b>60</b>	1	0.0
<b>61</b>	0	NaN
<b>62</b>	1	1.0
<b>63</b>	0	NaN
<b>64</b>	1	1.0
<b>65</b>	1	1.0
<b>66</b>	1	1.0
<b>67</b>	1	1.0
<b>68</b>	1	1.0
<b>69</b>	0	NaN
<b>70</b>	1	0.0
<b>71</b>	1	0.0

	Received Offer	Accepted Offer
72	1	1.0
73	1	0.0
74	1	0.0
75	0	NaN
76	1	1.0
77	1	1.0
78	0	NaN
79	1	1.0
80	1	1.0
81	1	0.0
82	1	1.0
83	0	NaN
84	1	1.0
85	0	NaN
86	1	1.0
87	1	0.0
88	1	1.0
89	1	1.0
90	0	NaN
91	1	1.0
92	1	1.0
93	1	0.0
94	1	0.0
95	0	NaN
96	1	1.0
97	0	NaN
98	0	NaN
99	0	NaN
100	0	NaN
101	1	1.0
102	0	NaN
103	0	NaN
104	1	0.0
105	1	1.0
106	1	0.0
107	1	1.0

	Received Offer	Accepted Offer
108	0	NaN
109	1	1.0
110	1	1.0
111	1	1.0
112	0	NaN
113	1	0.0
114	0	NaN
115	1	1.0
116	1	0.0
117	0	NaN
118	1	1.0
119	1	0.0
120	1	1.0
121	1	0.0
122	1	1.0
123	0	NaN
124	0	NaN
125	0	NaN
126	0	NaN
127	0	NaN
128	0	NaN
129	0	NaN
130	0	NaN
131	1	0.0
132	0	NaN
133	0	NaN
134	0	NaN
135	1	0.0
136	0	NaN
137	0	NaN
138	1	0.0
139	0	NaN
140	0	NaN
141	0	NaN
142	0	NaN
143	0	NaN

	Received Offer	Accepted Offer
144	0	NaN
145	0	NaN
146	0	NaN
147	0	NaN
148	0	NaN
149	1	0.0
150	0	NaN
151	1	0.0
152	1	1.0
153	1	1.0
154	0	NaN
155	1	1.0
156	1	1.0
157	1	1.0
158	1	0.0
159	1	1.0
160	1	1.0
161	1	1.0
162	1	1.0
163	1	1.0
164	1	1.0
165	1	0.0
166	0	NaN
167	1	1.0
168	1	1.0
169	0	NaN
170	0	NaN
171	1	1.0
172	1	1.0
173	1	1.0
174	1	1.0
175	0	NaN
176	1	1.0
177	1	1.0
178	1	1.0
179	0	NaN

	Received Offer	Accepted Offer
<b>180</b>	1	1.0
<b>181</b>	1	1.0
<b>182</b>	1	1.0
<b>183</b>	1	1.0
<b>184</b>	1	1.0
<b>185</b>	1	1.0
<b>186</b>	0	NaN
<b>187</b>	1	1.0
<b>188</b>	1	1.0
<b>189</b>	1	0.0
<b>190</b>	1	1.0
<b>191</b>	1	1.0
<b>192</b>	0	NaN
<b>193</b>	1	1.0
<b>194</b>	1	1.0
<b>195</b>	1	1.0
<b>196</b>	1	1.0
<b>197</b>	1	1.0
<b>198</b>	1	1.0
<b>199</b>	1	0.0
<b>200</b>	0	NaN
<b>201</b>	1	1.0
<b>202</b>	1	1.0
<b>203</b>	1	1.0
<b>204</b>	1	1.0
<b>205</b>	0	NaN
<b>206</b>	1	0.0
<b>207</b>	1	1.0
<b>208</b>	1	1.0
<b>209</b>	1	1.0
<b>210</b>	1	1.0
<b>211</b>	0	NaN
<b>212</b>	1	0.0
<b>213</b>	1	1.0
<b>214</b>	0	NaN
<b>215</b>	1	0.0

	Received Offer	Accepted Offer
216	1	1.0
217	1	1.0
218	1	1.0
219	1	1.0
220	1	1.0
221	1	1.0
222	0	NaN
223	1	1.0
224	1	1.0
225	0	NaN
226	1	1.0
227	1	1.0
228	1	1.0
229	1	0.0
230	1	1.0
231	1	1.0
232	1	1.0
233	1	0.0
234	0	NaN
235	0	NaN
236	1	1.0
237	1	0.0
238	1	1.0
239	1	1.0
240	1	1.0
241	0	NaN
242	1	1.0
243	1	1.0
244	0	NaN
245	1	0.0
246	1	1.0
247	0	NaN
248	1	1.0
249	1	1.0
250	1	1.0
251	0	NaN

	Received Offer	Accepted Offer
<b>252</b>	1	1.0
<b>253</b>	1	1.0
<b>254</b>	1	1.0
<b>255</b>	1	1.0
<b>256</b>	1	0.0
<b>257</b>	1	1.0
<b>258</b>	1	1.0
<b>259</b>	1	1.0
<b>260</b>	0	NaN
<b>261</b>	0	NaN
<b>262</b>	1	1.0
<b>263</b>	0	NaN
<b>264</b>	1	1.0
<b>265</b>	0	NaN
<b>266</b>	1	1.0
<b>267</b>	1	1.0
<b>268</b>	0	NaN
<b>269</b>	0	NaN
<b>270</b>	0	NaN
<b>271</b>	1	1.0
<b>272</b>	0	NaN
<b>273</b>	1	1.0
<b>274</b>	1	1.0
<b>275</b>	0	NaN
<b>276</b>	0	NaN
<b>277</b>	1	1.0
<b>278</b>	1	0.0
<b>279</b>	1	1.0
<b>280</b>	0	NaN
<b>281</b>	1	1.0
<b>282</b>	1	1.0
<b>283</b>	1	1.0
<b>284</b>	0	NaN
<b>285</b>	0	NaN
<b>286</b>	0	NaN
<b>287</b>	0	NaN

	Received Offer	Accepted Offer
288	0	NaN
289	1	1.0
290	1	1.0
291	0	NaN
292	1	1.0
293	0	NaN
294	1	1.0
295	0	NaN
296	1	1.0
297	1	1.0
298	1	1.0
299	0	NaN
300	1	1.0
301	0	NaN
302	0	NaN
303	0	NaN
304	1	1.0
305	0	NaN
306	1	1.0
307	0	NaN
308	0	NaN
309	1	1.0
310	1	1.0
311	1	1.0
312	0	NaN
313	1	1.0
314	1	1.0
315	0	NaN
316	1	0.0
317	1	1.0
318	1	1.0
319	1	1.0

nan in accepted offers indicates deal were not finalized so, we fill nan with 0

```
In [41]: df["Accepted Offer"] = df["Accepted Offer"].fillna(0)
```

```
In [42]: df["Accepted Offer"].dtypes
```

```
Out[42]: dtype('float64')
```

**The dtypes of Accepted Offer column to int as it should be in discrete**

```
In [43]: df["Accepted Offer"] = df["Accepted Offer"].astype(int)
```

**Verifying the results**

```
In [44]: df["Accepted Offer"].isnull().sum()
```

```
Out[44]: 0
```

```
In [45]: df["Accepted Offer"].dtypes
```

```
Out[45]: dtype('int32')
```

## Taking has patents column

```
In [46]: df["Has Patents"].unique()
```

```
Out[46]: array([nan, 1.])
```

```
In [47]: df["Has Patents"].isnull().sum()
```

```
Out[47]: 313
```

In has patent column nan indicates that brand did not have any patents so we fill nan with 0

```
In [48]: df["Has Patents"] = df["Has Patents"].fillna(0)
```

```
In [49]: df["Has Patents"].dtypes
```

```
Out[49]: dtype('float64')
```

The dtypes of has patent columns should be in int because it has discrete values

```
In [50]: df["Has Patents"] = df["Has Patents"].astype(int)
```

**Verifying the results :**

```
In [51]: df["Has Patents"].isnull().sum()
```

```
Out[51]: 0
```

```
In [52]: df["Has Patents"].dtypes
```

```
Out[52]: dtype('int32')
```

```
In [53]: df["Has Patents"].unique()
```

```
Out[53]: array([0, 1])
```

**Taking Total Deal Amount","Original Offered Equity","Total Deal Equity","Total Deal Debt","Debt Interest","Deal Valuation column**

```
In [54]: df[["Original Ask Amount","Total Deal Amount","Original Offered Eq
```

Out[54]:

	Original Ask Amount	Total Deal Amount	Original Offered Equity	Total Deal Equity	Total Deal Debt	Debt Interest	Deal Valuation
0	50.00000	75.00000	5.00	16.00	NaN	NaN	469.000000
1	40.00000	40.00000	15.00	50.00	NaN	NaN	80.000000
2	25.00000	25.00000	10.00	30.00	NaN	NaN	83.000000
3	70.00000	70.00000	1.00	2.75	NaN	NaN	2545.000000
4	50.00000	NaN	5.00	NaN	NaN	NaN	NaN
5	50.00000	NaN	5.00	NaN	NaN	NaN	NaN
6	100.00000	NaN	0.25	NaN	NaN	NaN	NaN
7	75.00000	75.00000	4.00	6.00	NaN	NaN	1250.000000
8	50.00000	20.00000	2.00	15.00	30.0	NaN	133.000000
9	50.00000	50.00000	7.50	25.00	NaN	NaN	200.000000
10	50.00000	56.60000	10.00	5.62	NaN	NaN	1007.000000
11	75.00000	75.00000	4.00	7.50	NaN	NaN	1000.000000
12	100.00000	100.00000	1.00	1.50	NaN	NaN	6667.000000
13	50.00000	NaN	5.00	NaN	NaN	NaN	NaN
14	20.00000	NaN	10.00	NaN	NaN	NaN	NaN
15	45.00000	100.00000	5.00	15.00	NaN	NaN	667.000000
16	50.00000	50.00000	10.00	20.00	NaN	NaN	250.000000
17	100.00000	NaN	1.00	NaN	NaN	NaN	NaN
18	100.00000	100.00000	2.00	4.00	NaN	NaN	2500.000000
19	75.00000	NaN	1.00	NaN	NaN	NaN	NaN
20	5.00000	5.00000	10.00	10.00	NaN	NaN	50.000000
21	50.00000	NaN	7.50	NaN	NaN	NaN	NaN
22	50.00000	50.00000	2.50	2.50	NaN	NaN	2000.000000
23	56.00000	56.00000	7.50	33.33	NaN	NaN	168.000000
24	30.00000	30.00000	3.00	6.00	NaN	NaN	500.000000
25	50.00000	50.00000	5.00	7.00	NaN	NaN	714.000000
26	50.00000	50.00000	2.50	10.00	NaN	NaN	500.000000
27	100.00000	NaN	5.00	NaN	NaN	NaN	NaN
28	25.00000	25.00000	5.00	20.00	NaN	NaN	125.000000
29	30.00000	30.00000	5.00	20.00	NaN	NaN	150.000000
30	30.00000	30.00000	2.00	3.00	NaN	NaN	1000.000000
31	30000.00000	NaN	25.00	NaN	NaN	NaN	NaN
32	50.00000	50.00000	5.00	15.00	NaN	NaN	333.000000
33	30.00000	30.00000	10.00	20.00	NaN	NaN	150.000000
34	75.00000	75.00000	4.00	15.00	NaN	NaN	500.000000

	Original Ask Amount	Total Deal Amount	Original Offered Equity	Total Deal Equity	Total Deal Debt	Debt Interest	Deal Valuation
<b>35</b>	40.00000	NaN	3.00	NaN	NaN	NaN	NaN
<b>36</b>	40.00000	40.00000	5.00	24.00	NaN	NaN	167.000000
<b>37</b>	30.00000	105.00000	0.50	3.00	NaN	NaN	3500.000000
<b>38</b>	50.00000	50.00000	10.00	20.00	NaN	NaN	250.000000
<b>39</b>	50.00000	100.00000	2.00	10.00	NaN	NaN	1000.000000
<b>40</b>	100.00000	100.00000	3.00	6.00	NaN	NaN	1667.000000
<b>41</b>	100.00000	NaN	3.00	NaN	NaN	NaN	NaN
<b>42</b>	45.00000	NaN	5.00	NaN	NaN	NaN	NaN
<b>43</b>	30.00000	100.00000	3.00	40.00	NaN	NaN	250.000000
<b>44</b>	50.00000	25.00000	4.00	25.00	25.0	NaN	100.000000
<b>45</b>	0.00005	0.00005	5.00	5.00	NaN	NaN	0.000000
<b>46</b>	80.00000	50.00000	4.00	3.50	30.0	NaN	1429.000000
<b>47</b>	75.00000	NaN	7.00	NaN	NaN	NaN	NaN
<b>48</b>	75.00000	75.00000	4.00	15.00	NaN	NaN	500.000000
<b>49</b>	45.00000	45.00000	2.00	12.00	NaN	NaN	375.000000
<b>50</b>	50.00000	50.00000	10.00	25.00	NaN	NaN	200.000000
<b>51</b>	150.00000	150.00000	3.00	15.00	NaN	NaN	1000.000000
<b>52</b>	50.00000	NaN	5.00	NaN	NaN	NaN	NaN
<b>53</b>	80.00000	80.00000	10.00	20.00	NaN	NaN	400.000000
<b>54</b>	90.00000	NaN	3.00	NaN	NaN	NaN	NaN
<b>55</b>	50.00000	NaN	4.00	NaN	NaN	NaN	NaN
<b>56</b>	100.00000	1.00000	1.00	1.00	99.0	NaN	100.000000
<b>57</b>	50.00000	NaN	2.50	NaN	NaN	NaN	NaN
<b>58</b>	15.00000	NaN	5.00	NaN	NaN	NaN	NaN
<b>59</b>	50.00000	60.00000	5.00	10.00	NaN	NaN	600.000000
<b>60</b>	150.00000	NaN	1.25	NaN	NaN	NaN	NaN
<b>61</b>	120.00000	NaN	8.00	NaN	NaN	NaN	NaN
<b>62</b>	65.00000	40.00000	2.00	3.00	25.0	NaN	1333.000000
<b>63</b>	35.00000	NaN	5.00	NaN	NaN	NaN	NaN
<b>64</b>	50.00000	100.00000	2.00	10.00	NaN	NaN	1000.000000
<b>65</b>	100.00000	100.00000	8.00	15.00	NaN	NaN	667.000000
<b>66</b>	47.00000	25.00000	10.00	75.00	22.0	NaN	33.000000
<b>67</b>	35.00000	35.00000	5.00	24.00	NaN	NaN	146.000000
<b>68</b>	60.00000	60.00000	2.00	4.00	NaN	NaN	1500.000000
<b>69</b>	75.00000	NaN	5.00	NaN	NaN	NaN	NaN

	Original Ask Amount	Total Deal Amount	Original Offered Equity	Total Deal Equity	Total Deal Debt	Debt Interest	Deal Valuation
70	80.00000	NaN	0.50	NaN	NaN	NaN	NaN
71	50.00000	NaN	2.00	NaN	NaN	NaN	NaN
72	100.00000	50.00000	5.00	10.00	50.0	NaN	500.000000
73	100.00000	NaN	1.00	NaN	NaN	NaN	NaN
74	30.00000	NaN	5.00	NaN	NaN	NaN	NaN
75	75.00000	NaN	5.00	NaN	NaN	NaN	NaN
76	40.00000	50.00000	8.00	35.00	NaN	NaN	143.000000
77	30.00000	10.00000	10.00	40.00	20.0	NaN	25.000000
78	20.00000	NaN	10.00	NaN	NaN	NaN	NaN
79	50.00000	50.00000	4.00	15.00	NaN	NaN	333.000000
80	100.00000	100.00000	2.00	6.00	NaN	NaN	1667.000000
81	150.00000	NaN	2.00	NaN	NaN	NaN	NaN
82	50.00000	50.00000	8.00	50.00	NaN	NaN	100.000000
83	50.00000	NaN	10.00	NaN	NaN	NaN	NaN
84	65.00000	65.00000	1.00	3.00	NaN	NaN	2167.000000
85	50.00000	NaN	10.00	NaN	NaN	NaN	NaN
86	0.00101	0.00101	2.00	4.00	NaN	NaN	0.000000
87	60.00000	NaN	5.00	NaN	NaN	NaN	NaN
88	100.00000	100.00000	1.00	4.00	NaN	NaN	2500.000000
89	75.00000	100.00000	4.00	15.00	NaN	NaN	667.000000
90	90.00000	NaN	5.00	NaN	NaN	NaN	NaN
91	50.00000	50.00000	5.00	30.00	NaN	NaN	167.000000
92	75.00000	75.00000	5.00	21.00	NaN	NaN	357.000000
93	75.00000	NaN	3.00	NaN	NaN	NaN	NaN
94	100.00000	NaN	3.50	NaN	NaN	NaN	NaN
95	75.00000	NaN	15.00	NaN	NaN	NaN	NaN
96	80.00000	80.00000	1.00	6.00	NaN	NaN	1333.000000
97	300.00000	NaN	1.00	NaN	NaN	NaN	NaN
98	50.00000	NaN	7.50	NaN	NaN	NaN	NaN
99	50.00000	NaN	10.00	NaN	NaN	NaN	NaN
100	60.00000	NaN	2.50	NaN	NaN	NaN	NaN
101	75.00000	75.00000	2.00	2.68	NaN	NaN	2799.000000
102	75.00000	NaN	3.00	NaN	NaN	NaN	NaN
103	80.00000	NaN	7.00	NaN	NaN	NaN	NaN
104	200.00000	NaN	4.00	NaN	NaN	NaN	NaN

	Original Ask Amount	Total Deal Amount	Original Offered Equity	Total Deal Equity	Total Deal Debt	Debt Interest	Deal Valuation
105	50.00000	50.00000	1.00	2.00	NaN	NaN	2500.000000
106	35.00000	Nan	6.00	NaN	NaN	NaN	NaN
107	40.00000	40.00000	10.00	25.00	NaN	NaN	160.000000
108	40.00000	Nan	5.00	NaN	NaN	NaN	NaN
109	40.00000	60.00000	2.00	10.00	NaN	NaN	600.000000
110	35.00000	100.00000	1.00	10.00	NaN	NaN	1000.000000
111	40.00000	40.00000	10.00	20.00	NaN	NaN	200.000000
112	30.00000	Nan	7.50	NaN	NaN	NaN	NaN
113	60.00000	Nan	2.00	NaN	NaN	NaN	NaN
114	100.00000	Nan	1.00	NaN	NaN	NaN	NaN
115	40.00000	40.00000	8.00	30.00	NaN	NaN	133.000000
116	50.00000	Nan	4.00	NaN	NaN	NaN	NaN
117	100.00000	Nan	2.50	NaN	NaN	NaN	NaN
118	20.00000	21.00000	5.00	12.00	NaN	NaN	175.000000
119	150.00000	Nan	0.33	NaN	NaN	NaN	NaN
120	100.00000	50.00000	1.75	4.00	50.0	NaN	1250.000000
121	100.00000	Nan	1.00	NaN	NaN	NaN	NaN
122	60.00000	60.00000	3.00	10.00	NaN	NaN	600.000000
123	100.00000	Nan	10.00	NaN	NaN	NaN	NaN
124	40.00000	Nan	5.00	NaN	NaN	NaN	NaN
125	100.00000	Nan	1.00	NaN	NaN	NaN	NaN
126	25.00000	Nan	10.00	NaN	NaN	NaN	NaN
127	50.00000	Nan	10.00	NaN	NaN	NaN	NaN
128	75.00000	Nan	4.00	NaN	NaN	NaN	NaN
129	75.00000	Nan	7.50	NaN	NaN	NaN	NaN
130	25.00000	Nan	5.00	NaN	NaN	NaN	NaN
131	75.00000	Nan	1.00	NaN	NaN	NaN	NaN
132	40.00000	Nan	4.00	NaN	NaN	NaN	NaN
133	60.00000	Nan	3.00	NaN	NaN	NaN	NaN
134	100.00000	Nan	2.00	NaN	NaN	NaN	NaN
135	50.00000	Nan	4.00	NaN	NaN	NaN	NaN
136	75.00000	Nan	5.00	NaN	NaN	NaN	NaN
137	220.00000	Nan	1.00	NaN	NaN	NaN	NaN
138	55.00000	Nan	1.00	NaN	NaN	NaN	NaN
139	50.00000	Nan	3.50	NaN	NaN	NaN	NaN

	Original Ask Amount	Total Deal Amount	Original Offered Equity	Total Deal Equity	Total Deal Debt	Debt Interest	Deal Valuation
140	60.00000	NaN	2.00	NaN	NaN	NaN	NaN
141	50.00000	NaN	10.00	NaN	NaN	NaN	NaN
142	40.00000	NaN	10.00	NaN	NaN	NaN	NaN
143	50.00000	NaN	2.50	NaN	NaN	NaN	NaN
144	10.00000	NaN	15.00	NaN	NaN	NaN	NaN
145	100.00000	NaN	2.50	NaN	NaN	NaN	NaN
146	35.00000	NaN	10.00	NaN	NaN	NaN	NaN
147	50.00000	NaN	5.00	NaN	NaN	NaN	NaN
148	50.00000	NaN	25.00	NaN	NaN	NaN	NaN
149	170.00000	NaN	2.50	NaN	NaN	NaN	NaN
150	150.00000	NaN	2.50	NaN	NaN	NaN	NaN
151	150.00000	NaN	2.00	NaN	NaN	NaN	NaN
152	80.00000	100.00000	1.00	2.00	NaN	NaN	5000.000000
153	30.00000	30.00000	5.00	15.00	NaN	NaN	200.000000
154	100.00000	NaN	1.00	NaN	NaN	NaN	NaN
155	50.00000	50.00000	3.00	10.00	NaN	NaN	500.000000
156	200.00000	100.00000	5.00	10.00	100.0	NaN	1000.000000
157	75.00000	50.00000	6.00	18.00	25.0	NaN	277.777778
158	75.00000	NaN	3.00	NaN	NaN	NaN	NaN
159	300.00000	150.00000	1.00	0.60	150.0	NaN	25000.000000
160	20.00000	20.00000	10.00	20.00	NaN	NaN	100.000000
161	75.00000	100.00000	2.00	6.67	NaN	NaN	1499.250375
162	40.00000	40.00000	2.50	4.00	NaN	NaN	1000.000000
163	70.00000	35.00000	5.00	5.00	35.0	NaN	700.000000
164	100.00000	100.00000	4.00	10.00	NaN	NaN	1000.000000
165	75.00000	NaN	3.00	NaN	NaN	NaN	NaN
166	100.00000	NaN	1.00	NaN	NaN	NaN	NaN
167	50.00000	50.00000	3.00	8.00	NaN	NaN	625.000000
168	100.00000	100.00000	0.50	2.00	NaN	NaN	5000.000000
169	75.00000	NaN	1.00	NaN	NaN	NaN	NaN
170	250.00000	NaN	1.00	NaN	NaN	NaN	NaN
171	30.00000	30.00000	10.00	10.00	NaN	NaN	300.000000
172	100.00000	50.00000	1.50	3.50	50.0	10.0	1428.571429
173	30.00000	30.00000	1.00	3.00	NaN	NaN	1000.000000
174	75.00000	75.00000	1.00	3.75	NaN	NaN	2000.000000

	Original Ask Amount	Total Deal Amount	Original Offered Equity	Total Deal Equity	Total Deal Debt	Debt Interest	Deal Valuation
175	25.00000	NaN	5.00	NaN	NaN	NaN	NaN
176	65.00000	65.00000	1.00	2.00	NaN	NaN	3250.000000
177	50.00000	50.00000	1.00	2.00	NaN	NaN	2500.000000
178	50.00000	100.00000	3.30	10.00	NaN	NaN	1000.000000
179	50.00000	NaN	5.00	NaN	NaN	NaN	NaN
180	75.00000	25.00000	7.50	7.50	50.0	10.0	333.333333
181	40.00000	40.00000	2.00	10.00	NaN	NaN	400.000000
182	75.00000	75.00000	1.50	3.00	NaN	NaN	2500.000000
183	80.00000	30.00000	4.00	4.00	50.0	10.0	750.000000
184	60.00000	60.00000	2.00	4.00	NaN	NaN	1500.000000
185	100.00000	100.00000	2.50	2.50	NaN	NaN	4000.000000
186	50.00000	NaN	2.00	NaN	NaN	NaN	NaN
187	75.00000	75.00000	4.00	15.00	NaN	NaN	500.000000
188	40.00000	40.00000	5.00	20.00	NaN	NaN	200.000000
189	150.00000	NaN	1.00	NaN	NaN	NaN	NaN
190	51.00000	51.00000	1.00	6.00	NaN	NaN	850.000000
191	75.00000	75.00000	2.25	5.00	NaN	NaN	1500.000000
192	50.00000	NaN	8.00	NaN	NaN	NaN	NaN
193	72.00000	72.00000	2.00	6.50	NaN	NaN	1107.692308
194	90.00000	90.00000	3.00	7.50	NaN	NaN	1200.000000
195	60.00000	60.00000	1.00	6.00	NaN	NaN	1000.000000
196	60.00000	19.00000	1.50	1.00	41.0	10.0	1900.000000
197	50.00000	50.00000	1.00	2.00	NaN	NaN	2500.000000
198	90.00000	90.00000	2.00	3.00	NaN	NaN	3000.000000
199	280.00000	NaN	0.50	NaN	NaN	NaN	NaN
200	75.00000	NaN	6.00	NaN	NaN	NaN	NaN
201	40.00000	20.00000	10.00	20.00	20.0	NaN	100.000000
202	50.00000	50.00000	5.00	25.00	NaN	NaN	200.000000
203	100.00000	100.00000	1.00	1.00	NaN	NaN	10000.000000
204	50.00000	25.00000	5.00	5.00	25.0	NaN	500.000000
205	100.00000	NaN	1.00	NaN	NaN	NaN	NaN
206	100.00000	NaN	1.00	NaN	NaN	NaN	NaN
207	70.00000	70.00000	2.00	5.00	NaN	NaN	1400.000000
208	75.00000	75.00000	1.50	2.86	NaN	NaN	2622.377622
209	150.00000	150.00000	0.50	1.50	NaN	NaN	10000.000000

	Original Ask Amount	Total Deal Amount	Original Offered Equity	Total Deal Equity	Total Deal Debt	Debt Interest	Deal Valuation
210	150.00000	150.00000	1.00	2.50	NaN	NaN	6000.000000
211	20.00000	Nan	1.00	NaN	NaN	NaN	NaN
212	100.00000	Nan	2.00	NaN	NaN	NaN	NaN
213	50.00000	15.00000	10.00	10.00	35.0	0.0	150.000000
214	100.00000	Nan	1.40	NaN	NaN	NaN	NaN
215	100.00000	Nan	10.00	NaN	NaN	NaN	NaN
216	80.00000	100.00000	2.00	3.00	NaN	NaN	3333.333333
217	75.00000	75.00000	2.50	10.00	NaN	NaN	750.000000
218	75.00000	50.00000	7.50	20.00	25.0	12.0	250.000000
219	50.00000	100.00000	2.00	4.00	NaN	NaN	2500.000000
220	50.00000	25.00000	5.00	5.00	25.0	12.0	500.000000
221	30.00000	30.00000	2.00	5.00	NaN	NaN	600.000000
222	100.00000	Nan	2.50	NaN	NaN	NaN	NaN
223	75.00000	100.00000	7.50	10.00	NaN	NaN	1000.000000
224	75.00000	75.00000	4.00	7.50	NaN	NaN	1000.000000
225	50.00000	Nan	2.50	NaN	NaN	NaN	NaN
226	60.00000	60.00000	3.00	5.00	NaN	NaN	1200.000000
227	40.00000	40.00000	10.00	20.00	NaN	NaN	200.000000
228	75.00000	75.00000	2.50	10.00	NaN	NaN	750.000000
229	50.00000	Nan	5.00	NaN	NaN	NaN	NaN
230	100.00000	200.00000	1.00	4.00	NaN	NaN	5000.000000
231	75.00000	50.00000	1.00	3.00	25.0	12.0	1666.666667
232	100.00000	100.00000	2.00	8.00	NaN	NaN	1250.000000
233	50.00000	Nan	3.00	NaN	NaN	NaN	NaN
234	50.00000	Nan	7.50	NaN	NaN	NaN	NaN
235	75.00000	Nan	3.00	NaN	NaN	NaN	NaN
236	100.00000	100.00000	0.50	1.25	NaN	NaN	8000.000000
237	50.00000	Nan	3.00	NaN	NaN	NaN	NaN
238	40.00000	40.00000	2.00	3.20	NaN	NaN	1250.000000
239	30.00000	30.00000	10.00	20.00	NaN	NaN	150.000000
240	53.00000	106.00000	1.00	2.00	NaN	NaN	5300.000000
241	50.00000	Nan	2.00	NaN	NaN	NaN	NaN
242	90.00000	90.00000	0.50	1.00	NaN	NaN	9000.000000
243	0.00000	0.00000	0.50	0.50	NaN	NaN	0.000000
244	90.00000	Nan	1.50	NaN	NaN	NaN	NaN

	Original Ask Amount	Total Deal Amount	Original Offered Equity	Total Deal Equity	Total Deal Debt	Debt Interest	Deal Valuation
245	50.00000	NaN	10.00	NaN	NaN	NaN	NaN
246	40.00000	40.00000	4.00	10.00	NaN	NaN	400.000000
247	60.00000	NaN	1.50	NaN	NaN	NaN	NaN
248	50.00000	10.00000	5.00	5.00	40.0	0.0	200.000000
249	70.00000	50.00000	1.00	7.00	20.0	10.0	714.285714
250	150.00000	50.00000	7.50	5.00	100.0	10.0	1000.000000
251	100.00000	NaN	1.00	NaN	NaN	NaN	NaN
252	70.00000	10.00000	1.00	1.00	60.0	10.0	1000.000000
253	50.00000	50.00000	5.00	5.00	NaN	NaN	1000.000000
254	70.00000	50.00000	1.00	2.50	20.0	12.0	2000.000000
255	80.00000	80.00000	1.00	2.50	NaN	NaN	3200.000000
256	75.00000	NaN	6.00	NaN	NaN	NaN	NaN
257	40.00000	50.00000	5.00	10.00	NaN	NaN	500.000000
258	200.00000	200.00000	1.00	2.00	NaN	NaN	10000.000000
259	25.00000	25.00000	5.00	20.00	NaN	NaN	125.000000
260	80.00000	NaN	1.00	NaN	NaN	NaN	NaN
261	125.00000	NaN	0.50	NaN	NaN	NaN	NaN
262	100.00000	100.00000	2.00	5.40	NaN	NaN	1851.851852
263	50.00000	NaN	2.00	NaN	NaN	NaN	NaN
264	45.00000	45.00000	10.00	25.00	NaN	NaN	180.000000
265	75.00000	NaN	5.00	NaN	NaN	NaN	NaN
266	50.00000	50.00000	1.00	2.50	NaN	NaN	2000.000000
267	50.00000	50.00000	1.00	3.00	NaN	NaN	1666.666667
268	80.00000	NaN	2.00	NaN	NaN	NaN	NaN
269	100.00000	NaN	1.00	NaN	NaN	NaN	NaN
270	90.00000	NaN	1.50	NaN	NaN	NaN	NaN
271	67.00000	67.00000	2.00	3.00	NaN	NaN	2233.333333
272	50.00000	NaN	3.00	NaN	NaN	NaN	NaN
273	50.00000	50.00000	2.00	3.50	NaN	NaN	1428.571429
274	100.00000	200.00000	1.50	5.00	NaN	NaN	4000.000000
275	65.00000	NaN	3.00	NaN	NaN	NaN	NaN
276	100.00000	NaN	10.00	NaN	NaN	NaN	NaN
277	120.00000	60.00000	0.20	0.54	60.0	12.0	11111.111110
278	100.00000	NaN	2.50	NaN	NaN	NaN	NaN
279	100.00000	50.00000	1.00	1.00	50.0	10.0	5000.000000

	Original Ask Amount	Total Deal Amount	Original Offered Equity	Total Deal Equity	Total Deal Debt	Debt Interest	Deal Valuation
280	200.00000	NaN	2.00	NaN	NaN	NaN	NaN
281	150.00000	150.00000	1.00	2.00	NaN	NaN	7500.000000
282	150.00000	80.00000	1.00	2.00	70.0	NaN	4000.000000
283	50.00000	60.00000	3.00	4.76	NaN	NaN	1260.504202
284	100.00000	NaN	0.75	NaN	NaN	NaN	NaN
285	80.00000	NaN	15.00	NaN	NaN	NaN	NaN
286	75.00000	NaN	1.00	NaN	NaN	NaN	NaN
287	40.00000	NaN	1.00	NaN	NaN	NaN	NaN
288	75.00000	NaN	5.00	NaN	NaN	NaN	NaN
289	50.00000	50.00000	1.25	4.16	NaN	NaN	1201.923077
290	60.00000	15.00000	1.50	1.50	45.0	12.0	1000.000000
291	50.00000	NaN	1.00	NaN	NaN	NaN	NaN
292	50.00000	50.00000	2.00	6.50	NaN	NaN	769.230769
293	1000.00000	NaN	10.00	NaN	NaN	NaN	NaN
294	75.00000	75.00000	5.00	15.00	NaN	NaN	500.000000
295	50.00000	NaN	5.00	NaN	NaN	NaN	NaN
296	100.00000	50.00000	2.00	10.00	50.0	12.0	500.000000
297	50.00000	20.00000	1.00	1.00	30.0	10.0	2000.000000
298	50.00000	50.00000	5.00	10.00	NaN	NaN	500.000000
299	60.00000	NaN	2.00	NaN	NaN	NaN	NaN
300	75.00000	75.00000	2.00	3.75	NaN	NaN	2000.000000
301	50.00000	NaN	1.50	NaN	NaN	NaN	NaN
302	75.00000	NaN	2.10	NaN	NaN	NaN	NaN
303	100.00000	NaN	1.66	NaN	NaN	NaN	NaN
304	50.00000	50.00000	3.00	5.00	NaN	NaN	1000.000000
305	50.00000	NaN	8.00	NaN	NaN	NaN	NaN
306	150.00000	100.00000	0.50	1.00	50.0	12.0	10000.000000
307	25.00000	NaN	15.00	NaN	NaN	NaN	NaN
308	35.00000	NaN	5.00	NaN	NaN	NaN	NaN
309	100.00000	50.00000	1.00	1.00	50.0	10.0	5000.000000
310	20.00000	20.00000	10.00	20.00	NaN	NaN	100.000000
311	100.00000	100.00000	10.00	10.00	NaN	NaN	1000.000000
312	50.00000	NaN	1.00	NaN	NaN	NaN	NaN
313	75.00000	10.00000	3.00	1.00	65.0	18.0	1000.000000
314	100.00000	100.00000	2.00	2.00	NaN	NaN	5000.000000

	Original Ask Amount	Total Deal Amount	Original Offered Equity	Total Deal Equity	Total Deal Debt	Debt Interest	Deal Valuation
315	200.00000	NaN	1.00	NaN	NaN	NaN	NaN
316	90.00000	NaN	0.50	NaN	NaN	NaN	NaN
317	150.00000	81.00000	0.50	1.00	69.0	12.0	8100.000000
318	75.00000	50.00000	2.50	5.00	25.0	10.0	1000.000000
319	80.00000	80.00000	2.00	10.00	NaN	NaN	800.000000

Here, nan indicates that deal were not finalized , so we fill nan with 0.

In [55]: `df[["Original Ask Amount","Total Deal Amount","Original Offered Eq`

### Verifying the results :

In [56]: `df[["Original Ask Amount","Total Deal Amount","Original Offered Eq`

Out[56]:

Original Ask Amount	0
Total Deal Amount	0
Original Offered Equity	0
Total Deal Equity	0
Total Deal Debt	0
Debt Interest	0
Deal Valuation	0

dtype: int64

### Taking Sharks columns

In [57]: `df[["Number of sharks in deal","Ashneer Investment Amount","Namita`

Out[57]:

Number of sharks in deal	Ashneer Investment Amount	Namita Investment Amount	Anupam Investment Amount	Vineeta Investment Amount	Aman Investment Amount	Investment Amount
0	3.0	25.00	NaN	NaN	25.00	25.000000
1	2.0	20.00	NaN	NaN	20.00	NaN
2	2.0	NaN	NaN	12.500000	12.50	NaN
3	1.0	70.00	NaN	NaN	NaN	NaN
4	NaN	NaN	NaN	NaN	NaN	NaN
5	NaN	NaN	NaN	NaN	NaN	NaN
6	NaN	NaN	NaN	NaN	NaN	NaN
7	1.0	NaN	NaN	NaN	NaN	75.000000
8	1.0	NaN	NaN	NaN	20.00	NaN
9	2.0	NaN	NaN	25.000000	25.00	NaN
10	2.0	NaN	28.300000	NaN	28.30	NaN
11	2.0	NaN	37.500000	NaN	NaN	37.500000
12	2.0	NaN	NaN	50.000000	NaN	50.000000
13	NaN	NaN	NaN	NaN	NaN	NaN
14	NaN	NaN	NaN	NaN	NaN	NaN
15	5.0	20.00	20.000000	20.000000	20.00	20.000000
16	1.0	NaN	50.000000	NaN	NaN	NaN
17	NaN	NaN	NaN	NaN	NaN	NaN
18	2.0	50.00	NaN	NaN	NaN	50.000000
19	NaN	NaN	NaN	NaN	NaN	NaN
20	2.0	NaN	NaN	2.500000	NaN	2.500000
21	NaN	NaN	NaN	NaN	NaN	NaN
22	2.0	25.00	NaN	NaN	NaN	25.000000
23	2.0	NaN	NaN	28.000000	NaN	NaN
24	1.0	30.00	NaN	NaN	NaN	NaN
25	2.0	NaN	25.000000	NaN	NaN	25.000000
26	2.0	NaN	NaN	NaN	NaN	25.000000
27	NaN	NaN	NaN	NaN	NaN	NaN
28	3.0	NaN	8.330000	NaN	NaN	8.330000
29	3.0	NaN	NaN	10.000000	NaN	10.000000
30	3.0	10.00	NaN	NaN	NaN	10.000000
31	NaN	NaN	NaN	NaN	NaN	NaN
32	1.0	NaN	NaN	50.000000	NaN	NaN
33	2.0	NaN	15.000000	NaN	NaN	15.000000

Number of sharks in deal	Ashneer Investment Amount	Namita Investment Amount	Anupam Investment Amount	Vineeta Investment Amount	Aman Investment Amount	Inv
34	1.0	NaN	75.000000	NaN	NaN	NaN
35	NaN	NaN	NaN	NaN	NaN	NaN
36	3.0	NaN	NaN	13.330000	NaN	13.330000
37	3.0	NaN	35.000000	35.000000	NaN	NaN
38	2.0	NaN	NaN	25.000000	NaN	NaN
39	4.0	25.00	NaN	25.000000	NaN	25.000000
40	2.0	NaN	50.000000	NaN	NaN	50.000000
41	NaN	NaN	NaN	NaN	NaN	NaN
42	NaN	NaN	NaN	NaN	NaN	NaN
43	1.0	NaN	NaN	NaN	NaN	100.000000
44	1.0	NaN	NaN	NaN	NaN	NaN
45	3.0	NaN	0.000016	0.000016	NaN	0.000016
46	2.0	25.00	NaN	25.000000	NaN	NaN
47	NaN	NaN	NaN	NaN	NaN	NaN
48	2.0	NaN	37.500000	NaN	NaN	37.500000
49	2.0	NaN	NaN	22.500000	NaN	22.500000
50	5.0	10.00	10.000000	10.000000	NaN	10.000000
51	3.0	50.00	50.000000	NaN	NaN	NaN
52	NaN	NaN	NaN	NaN	NaN	NaN
53	1.0	NaN	NaN	NaN	NaN	NaN
54	NaN	NaN	NaN	NaN	NaN	NaN
55	NaN	NaN	NaN	NaN	NaN	NaN
56	1.0	1.00	NaN	NaN	NaN	NaN
57	NaN	NaN	NaN	NaN	NaN	NaN
58	NaN	NaN	NaN	NaN	NaN	NaN
59	4.0	15.00	15.000000	NaN	NaN	15.000000
60	NaN	NaN	NaN	NaN	NaN	NaN
61	NaN	NaN	NaN	NaN	NaN	NaN
62	1.0	NaN	NaN	NaN	NaN	NaN
63	NaN	NaN	NaN	NaN	NaN	NaN
64	5.0	20.00	20.000000	20.000000	NaN	20.000000
65	3.0	33.33	NaN	NaN	33.33	33.330000
66	1.0	NaN	NaN	NaN	NaN	NaN
67	2.0	NaN	NaN	17.500000	17.50	NaN

Number of sharks in deal	Ashneer Investment Amount	Namita Investment Amount	Anupam Investment Amount	Vineeta Investment Amount	Aman Investment Amount	Investment Amount	Investment Amount
68	3.0	20.00	NaN	20.000000	NaN	NaN	2
69	NaN	NaN	NaN	NaN	NaN	NaN	
70	NaN	NaN	NaN	NaN	NaN	NaN	
71	NaN	NaN	NaN	NaN	NaN	NaN	
72	1.0	NaN	NaN	NaN	NaN	50.000000	
73	NaN	NaN	NaN	NaN	NaN	NaN	
74	NaN	NaN	NaN	NaN	NaN	NaN	
75	NaN	NaN	NaN	NaN	NaN	NaN	
76	2.0	NaN	NaN	25.000000	NaN	NaN	
77	1.0	NaN	NaN	NaN	NaN	NaN	1
78	NaN	NaN	NaN	NaN	NaN	NaN	
79	1.0	NaN	NaN	50.000000	NaN	NaN	
80	5.0	NaN	20.000000	20.000000	20.00	NaN	2
81	NaN	NaN	NaN	NaN	NaN	NaN	
82	1.0	NaN	NaN	NaN	NaN	NaN	5
83	NaN	NaN	NaN	NaN	NaN	NaN	
84	1.0	NaN	65.000000	NaN	NaN	NaN	
85	NaN	NaN	NaN	NaN	NaN	NaN	
86	4.0	NaN	0.000253	0.000253	NaN	NaN	
87	NaN	NaN	NaN	NaN	NaN	NaN	
88	1.0	NaN	NaN	NaN	NaN	NaN	10
89	3.0	NaN	NaN	NaN	33.33	NaN	3
90	NaN	NaN	NaN	NaN	NaN	NaN	
91	3.0	NaN	NaN	NaN	16.66	NaN	1
92	3.0	NaN	25.000000	NaN	25.00	NaN	
93	NaN	NaN	NaN	NaN	NaN	NaN	
94	NaN	NaN	NaN	NaN	NaN	NaN	
95	NaN	NaN	NaN	NaN	NaN	NaN	
96	2.0	NaN	40.000000	NaN	40.00	NaN	
97	NaN	NaN	NaN	NaN	NaN	NaN	
98	NaN	NaN	NaN	NaN	NaN	NaN	
99	NaN	NaN	NaN	NaN	NaN	NaN	
100	NaN	NaN	NaN	NaN	NaN	NaN	
101	1.0	NaN	NaN	NaN	NaN	75.000000	

Number of sharks in deal	Ashneer Investment Amount	Namita Investment Amount	Anupam Investment Amount	Vineeta Investment Amount	Aman Investment Amount	Investment Amount
102	NaN	NaN	NaN	NaN	NaN	NaN
103	NaN	NaN	NaN	NaN	NaN	NaN
104	NaN	NaN	NaN	NaN	NaN	NaN
105	1.0	NaN	NaN	NaN	NaN	50.000000
106	NaN	NaN	NaN	NaN	NaN	NaN
107	1.0	NaN	40.000000	NaN	NaN	NaN
108	NaN	NaN	NaN	NaN	NaN	NaN
109	3.0	20.00	NaN	20.000000	NaN	NaN
110	2.0	50.00	NaN	NaN	NaN	NaN
111	4.0	10.00	10.000000	NaN	10.00	NaN
112	NaN	NaN	NaN	NaN	NaN	NaN
113	NaN	NaN	NaN	NaN	NaN	NaN
114	NaN	NaN	NaN	NaN	NaN	NaN
115	4.0	10.00	NaN	10.000000	10.00	10.000000
116	NaN	NaN	NaN	NaN	NaN	NaN
117	NaN	NaN	NaN	NaN	NaN	NaN
118	3.0	NaN	7.000000	NaN	7.00	7.000000
119	NaN	NaN	NaN	NaN	NaN	NaN
120	2.0	NaN	25.000000	NaN	NaN	NaN
121	NaN	NaN	NaN	NaN	NaN	NaN
122	2.0	NaN	NaN	NaN	NaN	NaN
123	NaN	NaN	NaN	NaN	NaN	NaN
124	NaN	NaN	NaN	NaN	NaN	NaN
125	NaN	NaN	NaN	NaN	NaN	NaN
126	NaN	NaN	NaN	NaN	NaN	NaN
127	NaN	NaN	NaN	NaN	NaN	NaN
128	NaN	NaN	NaN	NaN	NaN	NaN
129	NaN	NaN	NaN	NaN	NaN	NaN
130	NaN	NaN	NaN	NaN	NaN	NaN
131	NaN	NaN	NaN	NaN	NaN	NaN
132	NaN	NaN	NaN	NaN	NaN	NaN
133	NaN	NaN	NaN	NaN	NaN	NaN
134	NaN	NaN	NaN	NaN	NaN	NaN
135	NaN	NaN	NaN	NaN	NaN	NaN

Number of sharks in deal	Ashneer Investment Amount	Namita Investment Amount	Anupam Investment Amount	Vineeta Investment Amount	Aman Investment Amount	Investment Amount
136	NaN	NaN	NaN	NaN	NaN	NaN
137	NaN	NaN	NaN	NaN	NaN	NaN
138	NaN	NaN	NaN	NaN	NaN	NaN
139	NaN	NaN	NaN	NaN	NaN	NaN
140	NaN	NaN	NaN	NaN	NaN	NaN
141	NaN	NaN	NaN	NaN	NaN	NaN
142	NaN	NaN	NaN	NaN	NaN	NaN
143	NaN	NaN	NaN	NaN	NaN	NaN
144	NaN	NaN	NaN	NaN	NaN	NaN
145	NaN	NaN	NaN	NaN	NaN	NaN
146	NaN	NaN	NaN	NaN	NaN	NaN
147	NaN	NaN	NaN	NaN	NaN	NaN
148	NaN	NaN	NaN	NaN	NaN	NaN
149	NaN	NaN	NaN	NaN	NaN	NaN
150	NaN	NaN	NaN	NaN	NaN	NaN
151	NaN	NaN	NaN	NaN	NaN	NaN
152	2.0	NaN	NaN	NaN	NaN	50.000000
153	3.0	NaN	NaN	10.000000	10.00	NaN
154	NaN	NaN	NaN	NaN	NaN	NaN
155	2.0	NaN	25.000000	NaN	NaN	25.000000
156	2.0	NaN	NaN	50.000000	50.00	NaN
157	1.0	NaN	NaN	NaN	50.00	NaN
158	NaN	NaN	NaN	NaN	NaN	NaN
159	3.0	NaN	50.000000	NaN	NaN	50.000000
160	1.0	NaN	20.000000	NaN	NaN	NaN
161	2.0	NaN	NaN	NaN	NaN	50.000000
162	2.0	NaN	NaN	20.000000	NaN	NaN
163	1.0	NaN	35.000000	NaN	NaN	NaN
164	2.0	NaN	NaN	50.000000	50.00	NaN
165	NaN	NaN	NaN	NaN	NaN	NaN
166	NaN	NaN	NaN	NaN	NaN	NaN
167	4.0	NaN	NaN	12.500000	12.50	12.500000
168	3.0	NaN	33.330000	NaN	NaN	33.330000
169	NaN	NaN	NaN	NaN	NaN	NaN

Number of sharks in deal	Ashneer Investment Amount	Namita Investment Amount	Anupam Investment Amount	Vineeta Investment Amount	Aman Investment Amount	Investment Amount
170	NaN	NaN	NaN	NaN	NaN	NaN
171	2.0	NaN	NaN	NaN	15.00	15.000000
172	1.0	NaN	50.000000	NaN	NaN	NaN
173	2.0	NaN	15.000000	NaN	NaN	15.000000
174	2.0	NaN	NaN	NaN	NaN	37.500000
175	NaN	NaN	NaN	NaN	NaN	NaN
176	2.0	NaN	NaN	NaN	32.50	32.500000
177	1.0	NaN	50.000000	NaN	NaN	NaN
178	1.0	NaN	NaN	100.000000	NaN	NaN
179	NaN	NaN	NaN	NaN	NaN	NaN
180	1.0	NaN	25.000000	NaN	NaN	NaN
181	1.0	NaN	NaN	NaN	NaN	NaN
182	2.0	NaN	NaN	NaN	NaN	37.500000
183	1.0	NaN	30.000000	NaN	NaN	NaN
184	1.0	NaN	NaN	NaN	NaN	60.000000
185	1.0	NaN	100.000000	NaN	NaN	NaN
186	NaN	NaN	NaN	NaN	NaN	NaN
187	4.0	NaN	18.750000	NaN	NaN	18.750000
188	1.0	NaN	NaN	NaN	NaN	NaN
189	NaN	NaN	NaN	NaN	NaN	NaN
190	2.0	NaN	NaN	25.500000	NaN	NaN
191	1.0	NaN	NaN	NaN	NaN	NaN
192	NaN	NaN	NaN	NaN	NaN	NaN
193	1.0	NaN	NaN	NaN	NaN	NaN
194	2.0	NaN	NaN	NaN	NaN	45.000000
195	2.0	NaN	30.000000	NaN	NaN	NaN
196	1.0	NaN	19.000000	NaN	NaN	NaN
197	1.0	NaN	NaN	NaN	NaN	NaN
198	2.0	NaN	NaN	45.000000	NaN	NaN
199	NaN	NaN	NaN	NaN	NaN	NaN
200	NaN	NaN	NaN	NaN	NaN	NaN
201	2.0	NaN	NaN	NaN	NaN	NaN
202	1.0	NaN	NaN	50.000000	NaN	NaN
203	1.0	NaN	NaN	NaN	NaN	NaN

Number of sharks in deal	Ashneer Investment Amount	Namita Investment Amount	Anupam Investment Amount	Vineeta Investment Amount	Aman Investment Amount	Inv
204	1.0	NaN	NaN	NaN	NaN	NaN
205	NaN	NaN	NaN	NaN	NaN	NaN
206	NaN	NaN	NaN	NaN	NaN	NaN
207	1.0	NaN	70.000000	NaN	NaN	NaN
208	2.0	NaN	NaN	NaN	NaN	37.500000
209	5.0	NaN	30.000000	30.000000	30.00	30.000000
210	3.0	NaN	50.000000	NaN	NaN	50.000000
211	NaN	NaN	NaN	NaN	NaN	NaN
212	NaN	NaN	NaN	NaN	NaN	NaN
213	1.0	NaN	NaN	NaN	NaN	15.000000
214	NaN	NaN	NaN	NaN	NaN	NaN
215	NaN	NaN	NaN	NaN	NaN	NaN
216	3.0	NaN	33.330000	NaN	NaN	33.330000
217	1.0	NaN	NaN	75.000000	NaN	NaN
218	2.0	NaN	NaN	25.000000	25.00	NaN
219	4.0	NaN	25.000000	25.000000	25.00	NaN
220	2.0	NaN	12.500000	NaN	12.50	NaN
221	2.0	NaN	NaN	NaN	15.00	NaN
222	NaN	NaN	NaN	NaN	NaN	NaN
223	3.0	NaN	NaN	33.330000	33.33	33.330000
224	1.0	NaN	NaN	75.000000	NaN	NaN
225	NaN	NaN	NaN	NaN	NaN	NaN
226	1.0	NaN	NaN	NaN	NaN	NaN
227	1.0	NaN	NaN	40.000000	NaN	NaN
228	1.0	NaN	NaN	NaN	NaN	75.000000
229	NaN	NaN	NaN	NaN	NaN	NaN
230	4.0	NaN	50.000000	50.000000	NaN	50.000000
231	1.0	NaN	NaN	NaN	NaN	50.000000
232	1.0	NaN	NaN	NaN	100.00	NaN
233	NaN	NaN	NaN	NaN	NaN	NaN
234	NaN	NaN	NaN	NaN	NaN	NaN
235	NaN	NaN	NaN	NaN	NaN	NaN
236	1.0	NaN	NaN	NaN	NaN	100.000000
237	NaN	NaN	NaN	NaN	NaN	NaN

Number of sharks in deal	Ashneer Investment Amount	Namita Investment Amount	Anupam Investment Amount	Vineeta Investment Amount	Aman Investment Amount	Inv
238	2.0	NaN	20.000000	20.000000	NaN	NaN
239	5.0	NaN	6.000000	6.000000	6.00	6.000000
240	4.0	NaN	17.660000	NaN	17.66	17.660000
241	NaN	NaN	NaN	NaN	NaN	NaN
242	1.0	NaN	NaN	NaN	NaN	90.000000
243	3.0	NaN	NaN	0.000000	NaN	0.000000
244	NaN	NaN	NaN	NaN	NaN	NaN
245	NaN	NaN	NaN	NaN	NaN	NaN
246	1.0	NaN	40.000000	NaN	NaN	NaN
247	NaN	NaN	NaN	NaN	NaN	NaN
248	1.0	NaN	10.000000	NaN	NaN	NaN
249	1.0	NaN	NaN	50.000000	NaN	NaN
250	1.0	NaN	50.000000	NaN	NaN	NaN
251	NaN	NaN	NaN	NaN	NaN	NaN
252	1.0	NaN	NaN	NaN	NaN	NaN
253	2.0	NaN	NaN	NaN	NaN	25.000000
254	1.0	NaN	NaN	NaN	50.00	NaN
255	3.0	NaN	26.660000	NaN	26.66	NaN
256	NaN	NaN	NaN	NaN	NaN	NaN
257	1.0	NaN	NaN	NaN	NaN	NaN
258	3.0	NaN	66.660000	NaN	NaN	66.660000
259	1.0	NaN	NaN	NaN	NaN	NaN
260	NaN	NaN	NaN	NaN	NaN	NaN
261	NaN	NaN	NaN	NaN	NaN	NaN
262	2.0	NaN	NaN	NaN	NaN	50.000000
263	NaN	NaN	NaN	NaN	NaN	NaN
264	1.0	NaN	45.000000	NaN	NaN	NaN
265	NaN	NaN	NaN	NaN	NaN	NaN
266	1.0	NaN	NaN	NaN	NaN	NaN
267	2.0	NaN	NaN	NaN	NaN	25.000000
268	NaN	NaN	NaN	NaN	NaN	NaN
269	NaN	NaN	NaN	NaN	NaN	NaN
270	NaN	NaN	NaN	NaN	NaN	NaN
271	2.0	NaN	NaN	NaN	NaN	33.500000

Number of sharks in deal	Ashneer Investment Amount	Namita Investment Amount	Anupam Investment Amount	Vineeta Investment Amount	Aman Investment Amount	Inv
272	NaN	NaN	NaN	NaN	NaN	NaN
273	3.0	NaN	16.660000	NaN	NaN	16.660000
274	5.0	NaN	40.000000	40.000000	NaN	40.000000
275	NaN	NaN	NaN	NaN	NaN	NaN
276	NaN	NaN	NaN	NaN	NaN	NaN
277	2.0	NaN	NaN	NaN	NaN	30.000000
278	NaN	NaN	NaN	NaN	NaN	NaN
279	2.0	NaN	25.000000	NaN	NaN	NaN
280	NaN	NaN	NaN	NaN	NaN	NaN
281	4.0	NaN	NaN	37.500000	37.50	37.500000
282	1.0	NaN	NaN	NaN	NaN	80.000000
283	3.0	NaN	NaN	20.000000	20.00	20.000000
284	NaN	NaN	NaN	NaN	NaN	NaN
285	NaN	NaN	NaN	NaN	NaN	NaN
286	NaN	NaN	NaN	NaN	NaN	NaN
287	NaN	NaN	NaN	NaN	NaN	NaN
288	NaN	NaN	NaN	NaN	NaN	NaN
289	2.0	NaN	25.000000	NaN	NaN	NaN
290	1.0	NaN	NaN	NaN	NaN	NaN
291	NaN	NaN	NaN	NaN	NaN	NaN
292	1.0	NaN	NaN	NaN	50.00	NaN
293	NaN	NaN	NaN	NaN	NaN	NaN
294	1.0	NaN	75.000000	NaN	NaN	NaN
295	NaN	NaN	NaN	NaN	NaN	NaN
296	1.0	NaN	NaN	NaN	50.00	NaN
297	1.0	NaN	20.000000	NaN	NaN	NaN
298	1.0	NaN	NaN	NaN	NaN	NaN
299	NaN	NaN	NaN	NaN	NaN	NaN
300	3.0	NaN	25.000000	NaN	25.00	25.000000
301	NaN	NaN	NaN	NaN	NaN	NaN
302	NaN	NaN	NaN	NaN	NaN	NaN
303	NaN	NaN	NaN	NaN	NaN	NaN
304	1.0	NaN	50.000000	NaN	NaN	NaN
305	NaN	NaN	NaN	NaN	NaN	NaN

Number of sharks in deal	Ashneer Investment Amount	Namita Investment Amount	Anupam Investment Amount	Vineeta Investment Amount	Aman Investment Amount	Investment Amount
306	3.0	NaN	33.330000	NaN	33.33	33.330000
307	NaN	NaN	NaN	NaN	NaN	NaN
308	NaN	NaN	NaN	NaN	NaN	NaN
309	1.0	NaN	NaN	NaN	NaN	NaN
310	4.0	NaN	5.000000	5.000000	5.00	NaN
311	5.0	NaN	20.000000	20.000000	NaN	20.000000
312	NaN	NaN	NaN	NaN	NaN	NaN
313	1.0	NaN	NaN	NaN	NaN	NaN
314	1.0	NaN	NaN	NaN	NaN	NaN
315	NaN	NaN	NaN	NaN	NaN	NaN
316	NaN	NaN	NaN	NaN	NaN	NaN
317	2.0	NaN	NaN	NaN	NaN	40.500000
318	2.0	NaN	NaN	NaN	25.00	NaN
319	1.0	NaN	NaN	NaN	NaN	NaN

**Nan in number of sharks in deal columns indicates deal were not finalized so we fill with 0 .**

In [58]: `df["Number of sharks in deal"] = df["Number of sharks in deal"].fillna(0)`

### Verifying the results

In [59]: `df["Number of sharks in deal"].isnull().sum()`

Out[59]: 0

**Now , we are seeing how many columns are still left with missing values**

```
In [60]: print("  columns name                                no. of miss")
for i in df.columns:
    if df[i].isnull().sum()>0:
        print(i,"----->>>> ",df[i].isnull().sum())
```

columns name	no. of missing val
ues	
Ashneer Investment Amount ----->>>> 299	
Ashneer Investment Equity ----->>>> 299	
Ashneer Debt Amount ----->>>> 318	
Namita Investment Amount ----->>>> 254	
Namita Investment Equity ----->>>> 254	
Namita Debt Amount ----->>>> 307	
Anupam Investment Amount ----->>>> 269	
Anupam Investment Equity ----->>>> 269	
Anupam Debt Amount ----->>>> 316	
Vineeta Investment Amount ----->>>> 277	
Vineeta Investment Equity ----->>>> 277	
Vineeta Debt Amount ----->>>> 311	
Aman Investment Amount ----->>>> 247	
Aman Investment Equity ----->>>> 247	
Aman Debt Amount ----->>>> 312	
Peyush Investment Amount ----->>>> 251	
Peyush Investment Equity ----->>>> 251	
Peyush Debt Amount ----->>>> 309	
Ghazal Investment Amount ----->>>> 312	
Ghazal Investment Equity ----->>>> 312	
Ghazal Debt Amount ----->>>> 320	
Amit Investment Amount ----->>>> 299	
Amit Investment Equity ----->>>> 299	
Amit Debt Amount ----->>>> 316	
Guest Investment Amount ----->>>> 318	
Guest Investment Equity ----->>>> 318	
Guest Debt Amount ----->>>> 318	

**Taking Ashneer Investment Amount,Namita Investment Amount,Anupam Investment Amount,Vineeta Investment Amount,Aman Investment Amount,Peyush Investment Amount,Ghazal Investment Amount,Amit Investment Amount columns, Guest Investment Amount', 'Guest Investment Equity','Guest Debt Amount'**

In [61]: df.columns[35:-1]

```
Out[61]: Index(['Ashneer Investment Amount', 'Ashneer Investment Equity',
   'Ashneer Debt Amount', 'Namita Investment Amount',
   'Namita Investment Equity', 'Namita Debt Amount',
   'Anupam Investment Amount', 'Anupam Investment Equity',
   'Anupam Debt Amount', 'Vineeta Investment Amount',
   'Vineeta Investment Equity', 'Vineeta Debt Amount',
   'Aman Investment Amount', 'Aman Investment Equity', 'Aman De
bt Amount',
   'Peyush Investment Amount', 'Peyush Investment Equity',
   'Peyush Debt Amount', 'Ghazal Investment Amount',
   'Ghazal Investment Equity', 'Ghazal Debt Amount',
   'Amit Investment Amount', 'Amit Investment Equity', 'Amit De
bt Amount',
   'Guest Investment Amount', 'Guest Investment Equity',
   'Guest Debt Amount'],
  dtype='object')
```

```
In [62]: df[df.columns[35:-1]]
```

Out[62]:

	Ashneer Investment Amount	Ashneer Investment Equity	Ashneer Debt Amount	Namita Investment Amount	Namita Investment Equity	Namita Debt Amount	An Investment Amount
0	25.00	5.33	NaN	NaN	NaN	NaN	NaN
1	20.00	25.00	NaN	NaN	NaN	NaN	NaN
2	NaN	NaN	NaN	NaN	NaN	NaN	12.5
3	70.00	2.75	NaN	NaN	NaN	NaN	NaN
4	NaN	NaN	NaN	NaN	NaN	NaN	NaN
5	NaN	NaN	NaN	NaN	NaN	NaN	NaN
6	NaN	NaN	NaN	NaN	NaN	NaN	NaN
7	NaN	NaN	NaN	NaN	NaN	NaN	NaN
8	NaN	NaN	NaN	NaN	NaN	NaN	NaN
9	NaN	NaN	NaN	NaN	NaN	NaN	25.0
10	NaN	NaN	NaN	28.300000	2.8100	NaN	NaN
11	NaN	NaN	NaN	37.500000	3.7500	NaN	NaN
12	NaN	NaN	NaN	NaN	NaN	NaN	50.0
13	NaN	NaN	NaN	NaN	NaN	NaN	NaN
14	NaN	NaN	NaN	NaN	NaN	NaN	NaN
15	20.00	3.00	NaN	20.000000	3.0000	NaN	20.0
16	NaN	NaN	NaN	50.000000	20.0000	NaN	NaN
17	NaN	NaN	NaN	NaN	NaN	NaN	NaN
18	50.00	2.00	NaN	NaN	NaN	NaN	NaN
19	NaN	NaN	NaN	NaN	NaN	NaN	NaN
20	NaN	NaN	NaN	NaN	NaN	NaN	2.5
21	NaN	NaN	NaN	NaN	NaN	NaN	NaN
22	25.00	1.25	NaN	NaN	NaN	NaN	NaN
23	NaN	NaN	NaN	NaN	NaN	NaN	28.0
24	30.00	6.00	NaN	NaN	NaN	NaN	NaN
25	NaN	NaN	NaN	25.000000	3.5000	NaN	NaN
26	NaN	NaN	NaN	NaN	NaN	NaN	NaN
27	NaN	NaN	NaN	NaN	NaN	NaN	NaN
28	NaN	NaN	NaN	8.330000	6.6600	NaN	NaN
29	NaN	NaN	NaN	NaN	NaN	NaN	10.0
30	10.00	1.00	NaN	NaN	NaN	NaN	NaN
31	NaN	NaN	NaN	NaN	NaN	NaN	NaN
32	NaN	NaN	NaN	NaN	NaN	NaN	50.0
33	NaN	NaN	NaN	15.000000	10.0000	NaN	NaN
34	NaN	NaN	NaN	75.000000	15.0000	NaN	NaN

	Ashneer Investment Amount	Ashneer Investment Equity	Ashneer Debt Amount	Namita Investment Amount	Namita Investment Equity	Namita Debt Amount	An Investment
<b>35</b>	NaN	NaN	NaN	NaN	NaN	NaN	
<b>36</b>	NaN	NaN	NaN	NaN	NaN	NaN	13.3
<b>37</b>	NaN	NaN	NaN	35.000000	1.0000	NaN	35.0
<b>38</b>	NaN	NaN	NaN	NaN	NaN	NaN	25.0
<b>39</b>	25.00	2.50	NaN	NaN	NaN	NaN	25.0
<b>40</b>	NaN	NaN	NaN	50.000000	3.0000	NaN	
<b>41</b>	NaN	NaN	NaN	NaN	NaN	NaN	
<b>42</b>	NaN	NaN	NaN	NaN	NaN	NaN	
<b>43</b>	NaN	NaN	NaN	NaN	NaN	NaN	
<b>44</b>	NaN	NaN	NaN	NaN	NaN	NaN	
<b>45</b>	NaN	NaN	NaN	0.000016	1.6660	NaN	0.0
<b>46</b>	25.00	1.75	15.0	NaN	NaN	NaN	25.0
<b>47</b>	NaN	NaN	NaN	NaN	NaN	NaN	
<b>48</b>	NaN	NaN	NaN	37.500000	7.5000	NaN	
<b>49</b>	NaN	NaN	NaN	NaN	NaN	NaN	22.5
<b>50</b>	10.00	5.00	NaN	10.000000	5.0000	NaN	10.0
<b>51</b>	50.00	5.00	NaN	50.000000	5.0000	NaN	
<b>52</b>	NaN	NaN	NaN	NaN	NaN	NaN	
<b>53</b>	NaN	NaN	NaN	NaN	NaN	NaN	
<b>54</b>	NaN	NaN	NaN	NaN	NaN	NaN	
<b>55</b>	NaN	NaN	NaN	NaN	NaN	NaN	
<b>56</b>	1.00	1.00	99.0	NaN	NaN	NaN	
<b>57</b>	NaN	NaN	NaN	NaN	NaN	NaN	
<b>58</b>	NaN	NaN	NaN	NaN	NaN	NaN	
<b>59</b>	15.00	2.50	NaN	15.000000	2.5000	NaN	
<b>60</b>	NaN	NaN	NaN	NaN	NaN	NaN	
<b>61</b>	NaN	NaN	NaN	NaN	NaN	NaN	
<b>62</b>	NaN	NaN	NaN	NaN	NaN	NaN	
<b>63</b>	NaN	NaN	NaN	NaN	NaN	NaN	
<b>64</b>	20.00	2.00	NaN	20.000000	2.0000	NaN	20.0
<b>65</b>	33.33	5.00	NaN	NaN	NaN	NaN	
<b>66</b>	NaN	NaN	NaN	NaN	NaN	NaN	
<b>67</b>	NaN	NaN	NaN	NaN	NaN	NaN	17.5
<b>68</b>	20.00	1.33	NaN	NaN	NaN	NaN	20.0
<b>69</b>	NaN	NaN	NaN	NaN	NaN	NaN	

	Ashneer Investment Amount	Ashneer Investment Equity	Ashneer Debt Amount	Namita Investment Amount	Namita Investment Equity	Namita Debt Amount	An Investment Amount
70	NaN	NaN	NaN	NaN	NaN	NaN	NaN
71	NaN	NaN	NaN	NaN	NaN	NaN	NaN
72	NaN	NaN	NaN	NaN	NaN	NaN	NaN
73	NaN	NaN	NaN	NaN	NaN	NaN	NaN
74	NaN	NaN	NaN	NaN	NaN	NaN	NaN
75	NaN	NaN	NaN	NaN	NaN	NaN	NaN
76	NaN	NaN	NaN	NaN	NaN	NaN	25.0
77	NaN	NaN	NaN	NaN	NaN	NaN	NaN
78	NaN	NaN	NaN	NaN	NaN	NaN	NaN
79	NaN	NaN	NaN	NaN	NaN	NaN	50.0
80	NaN	NaN	NaN	20.000000	1.2000	NaN	20.0
81	NaN	NaN	NaN	NaN	NaN	NaN	NaN
82	NaN	NaN	NaN	NaN	NaN	NaN	NaN
83	NaN	NaN	NaN	NaN	NaN	NaN	NaN
84	NaN	NaN	NaN	65.000000	3.0000	NaN	NaN
85	NaN	NaN	NaN	NaN	NaN	NaN	NaN
86	NaN	NaN	NaN	0.000253	1.0000	NaN	0.0
87	NaN	NaN	NaN	NaN	NaN	NaN	NaN
88	NaN	NaN	NaN	NaN	NaN	NaN	NaN
89	NaN	NaN	NaN	NaN	NaN	NaN	NaN
90	NaN	NaN	NaN	NaN	NaN	NaN	NaN
91	NaN	NaN	NaN	NaN	NaN	NaN	NaN
92	NaN	NaN	NaN	25.000000	7.0000	NaN	NaN
93	NaN	NaN	NaN	NaN	NaN	NaN	NaN
94	NaN	NaN	NaN	NaN	NaN	NaN	NaN
95	NaN	NaN	NaN	NaN	NaN	NaN	NaN
96	NaN	NaN	NaN	40.000000	3.0000	NaN	NaN
97	NaN	NaN	NaN	NaN	NaN	NaN	NaN
98	NaN	NaN	NaN	NaN	NaN	NaN	NaN
99	NaN	NaN	NaN	NaN	NaN	NaN	NaN
100	NaN	NaN	NaN	NaN	NaN	NaN	NaN
101	NaN	NaN	NaN	NaN	NaN	NaN	NaN
102	NaN	NaN	NaN	NaN	NaN	NaN	NaN
103	NaN	NaN	NaN	NaN	NaN	NaN	NaN
104	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Ashneer Investment Amount	Ashneer Investment Equity	Ashneer Debt Amount	Namita Investment Amount	Namita Investment Equity	Namita Debt Amount	An Investment Amount
105	NaN	NaN	NaN	NaN	NaN	NaN	NaN
106	NaN	NaN	NaN	NaN	NaN	NaN	NaN
107	NaN	NaN	NaN	40.000000	25.0000	NaN	NaN
108	NaN	NaN	NaN	NaN	NaN	NaN	NaN
109	20.00	3.33	NaN	NaN	NaN	NaN	20.0
110	50.00	5.00	NaN	NaN	NaN	NaN	NaN
111	10.00	5.00	NaN	10.000000	5.0000	NaN	NaN
112	NaN	NaN	NaN	NaN	NaN	NaN	NaN
113	NaN	NaN	NaN	NaN	NaN	NaN	NaN
114	NaN	NaN	NaN	NaN	NaN	NaN	NaN
115	10.00	7.50	NaN	NaN	NaN	NaN	10.0
116	NaN	NaN	NaN	NaN	NaN	NaN	NaN
117	NaN	NaN	NaN	NaN	NaN	NaN	NaN
118	NaN	NaN	NaN	7.000000	4.0000	NaN	NaN
119	NaN	NaN	NaN	NaN	NaN	NaN	NaN
120	NaN	NaN	NaN	25.000000	2.0000	25.00	NaN
121	NaN	NaN	NaN	NaN	NaN	NaN	NaN
122	NaN	NaN	NaN	NaN	NaN	NaN	NaN
123	NaN	NaN	NaN	NaN	NaN	NaN	NaN
124	NaN	NaN	NaN	NaN	NaN	NaN	NaN
125	NaN	NaN	NaN	NaN	NaN	NaN	NaN
126	NaN	NaN	NaN	NaN	NaN	NaN	NaN
127	NaN	NaN	NaN	NaN	NaN	NaN	NaN
128	NaN	NaN	NaN	NaN	NaN	NaN	NaN
129	NaN	NaN	NaN	NaN	NaN	NaN	NaN
130	NaN	NaN	NaN	NaN	NaN	NaN	NaN
131	NaN	NaN	NaN	NaN	NaN	NaN	NaN
132	NaN	NaN	NaN	NaN	NaN	NaN	NaN
133	NaN	NaN	NaN	NaN	NaN	NaN	NaN
134	NaN	NaN	NaN	NaN	NaN	NaN	NaN
135	NaN	NaN	NaN	NaN	NaN	NaN	NaN
136	NaN	NaN	NaN	NaN	NaN	NaN	NaN
137	NaN	NaN	NaN	NaN	NaN	NaN	NaN
138	NaN	NaN	NaN	NaN	NaN	NaN	NaN
139	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Ashneer Investment Amount	Ashneer Investment Equity	Ashneer Debt Amount	Namita Investment Amount	Namita Investment Equity	Namita Debt Amount	An Investment Amount
140	NaN	NaN	NaN	NaN	NaN	NaN	NaN
141	NaN	NaN	NaN	NaN	NaN	NaN	NaN
142	NaN	NaN	NaN	NaN	NaN	NaN	NaN
143	NaN	NaN	NaN	NaN	NaN	NaN	NaN
144	NaN	NaN	NaN	NaN	NaN	NaN	NaN
145	NaN	NaN	NaN	NaN	NaN	NaN	NaN
146	NaN	NaN	NaN	NaN	NaN	NaN	NaN
147	NaN	NaN	NaN	NaN	NaN	NaN	NaN
148	NaN	NaN	NaN	NaN	NaN	NaN	NaN
149	NaN	NaN	NaN	NaN	NaN	NaN	NaN
150	NaN	NaN	NaN	NaN	NaN	NaN	NaN
151	NaN	NaN	NaN	NaN	NaN	NaN	NaN
152	NaN	NaN	NaN	NaN	NaN	NaN	NaN
153	NaN	NaN	NaN	NaN	NaN	NaN	10.0
154	NaN	NaN	NaN	NaN	NaN	NaN	NaN
155	NaN	NaN	NaN	25.000000	5.0000	NaN	
156	NaN	NaN	NaN	NaN	NaN	NaN	50.0
157	NaN	NaN	NaN	NaN	NaN	NaN	NaN
158	NaN	NaN	NaN	NaN	NaN	NaN	NaN
159	NaN	NaN	NaN	50.000000	0.2000	50.00	
160	NaN	NaN	NaN	20.000000	20.0000	NaN	
161	NaN	NaN	NaN	NaN	NaN	NaN	NaN
162	NaN	NaN	NaN	NaN	NaN	NaN	20.0
163	NaN	NaN	NaN	35.000000	5.0000	35.00	
164	NaN	NaN	NaN	NaN	NaN	NaN	50.0
165	NaN	NaN	NaN	NaN	NaN	NaN	NaN
166	NaN	NaN	NaN	NaN	NaN	NaN	NaN
167	NaN	NaN	NaN	NaN	NaN	NaN	12.5
168	NaN	NaN	NaN	33.330000	0.6660	NaN	
169	NaN	NaN	NaN	NaN	NaN	NaN	NaN
170	NaN	NaN	NaN	NaN	NaN	NaN	NaN
171	NaN	NaN	NaN	NaN	NaN	NaN	NaN
172	NaN	NaN	NaN	50.000000	3.5000	50.00	
173	NaN	NaN	NaN	15.000000	1.5000	NaN	
174	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Ashneer Investment Amount	Ashneer Investment Equity	Ashneer Debt Amount	Namita Investment Amount	Namita Investment Equity	Namita Debt Amount	An Investment Amount
175	NaN	NaN	NaN	NaN	NaN	NaN	NaN
176	NaN	NaN	NaN	NaN	NaN	NaN	NaN
177	NaN	NaN	NaN	50.000000	2.0000	NaN	NaN
178	NaN	NaN	NaN	NaN	NaN	NaN	100.0
179	NaN	NaN	NaN	NaN	NaN	NaN	NaN
180	NaN	NaN	NaN	25.000000	7.5000	50.00	
181	NaN	NaN	NaN	NaN	NaN	NaN	NaN
182	NaN	NaN	NaN	NaN	NaN	NaN	NaN
183	NaN	NaN	NaN	30.000000	4.0000	50.00	
184	NaN	NaN	NaN	NaN	NaN	NaN	NaN
185	NaN	NaN	NaN	100.000000	2.5000	NaN	
186	NaN	NaN	NaN	NaN	NaN	NaN	NaN
187	NaN	NaN	NaN	18.750000	3.7500	NaN	
188	NaN	NaN	NaN	NaN	NaN	NaN	NaN
189	NaN	NaN	NaN	NaN	NaN	NaN	NaN
190	NaN	NaN	NaN	NaN	NaN	NaN	25.5
191	NaN	NaN	NaN	NaN	NaN	NaN	NaN
192	NaN	NaN	NaN	NaN	NaN	NaN	NaN
193	NaN	NaN	NaN	NaN	NaN	NaN	NaN
194	NaN	NaN	NaN	NaN	NaN	NaN	NaN
195	NaN	NaN	NaN	30.000000	3.0000	NaN	
196	NaN	NaN	NaN	19.000000	1.0000	41.00	
197	NaN	NaN	NaN	NaN	NaN	NaN	NaN
198	NaN	NaN	NaN	NaN	NaN	NaN	45.0
199	NaN	NaN	NaN	NaN	NaN	NaN	NaN
200	NaN	NaN	NaN	NaN	NaN	NaN	NaN
201	NaN	NaN	NaN	NaN	NaN	NaN	NaN
202	NaN	NaN	NaN	NaN	NaN	NaN	50.0
203	NaN	NaN	NaN	NaN	NaN	NaN	NaN
204	NaN	NaN	NaN	NaN	NaN	NaN	NaN
205	NaN	NaN	NaN	NaN	NaN	NaN	NaN
206	NaN	NaN	NaN	NaN	NaN	NaN	NaN
207	NaN	NaN	NaN	70.000000	5.0000	NaN	
208	NaN	NaN	NaN	NaN	NaN	NaN	NaN
209	NaN	NaN	NaN	30.000000	0.3000	NaN	30.0

	Ashneer Investment Amount	Ashneer Investment Equity	Ashneer Debt Amount	Namita Investment Amount	Namita Investment Equity	Namita Debt Amount	An Investment Amount
210	NaN	NaN	NaN	50.000000	0.8330	NaN	
211	NaN	NaN	NaN	NaN	NaN	NaN	
212	NaN	NaN	NaN	NaN	NaN	NaN	
213	NaN	NaN	NaN	NaN	NaN	NaN	
214	NaN	NaN	NaN	NaN	NaN	NaN	
215	NaN	NaN	NaN	NaN	NaN	NaN	
216	NaN	NaN	NaN	33.330000	1.0000	NaN	
217	NaN	NaN	NaN	NaN	NaN	NaN	75.0
218	NaN	NaN	NaN	NaN	NaN	NaN	25.0
219	NaN	NaN	NaN	25.000000	1.0000	NaN	25.0
220	NaN	NaN	NaN	12.500000	2.5000	12.50	
221	NaN	NaN	NaN	NaN	NaN	NaN	
222	NaN	NaN	NaN	NaN	NaN	NaN	
223	NaN	NaN	NaN	NaN	NaN	NaN	33.3
224	NaN	NaN	NaN	NaN	NaN	NaN	75.0
225	NaN	NaN	NaN	NaN	NaN	NaN	
226	NaN	NaN	NaN	NaN	NaN	NaN	
227	NaN	NaN	NaN	NaN	NaN	NaN	40.0
228	NaN	NaN	NaN	NaN	NaN	NaN	
229	NaN	NaN	NaN	NaN	NaN	NaN	
230	NaN	NaN	NaN	50.000000	1.0000	NaN	50.0
231	NaN	NaN	NaN	NaN	NaN	NaN	
232	NaN	NaN	NaN	NaN	NaN	NaN	
233	NaN	NaN	NaN	NaN	NaN	NaN	
234	NaN	NaN	NaN	NaN	NaN	NaN	
235	NaN	NaN	NaN	NaN	NaN	NaN	
236	NaN	NaN	NaN	NaN	NaN	NaN	
237	NaN	NaN	NaN	NaN	NaN	NaN	
238	NaN	NaN	NaN	20.000000	1.6000	NaN	20.0
239	NaN	NaN	NaN	6.000000	4.0000	NaN	6.0
240	NaN	NaN	NaN	17.660000	0.3300	NaN	
241	NaN	NaN	NaN	NaN	NaN	NaN	
242	NaN	NaN	NaN	NaN	NaN	NaN	
243	NaN	NaN	NaN	NaN	NaN	NaN	0.0
244	NaN	NaN	NaN	NaN	NaN	NaN	

	Ashneer Investment Amount	Ashneer Investment Equity	Ashneer Debt Amount	Namita Investment Amount	Namita Investment Equity	Namita Debt Amount	An Investment Amount
245	NaN	NaN	NaN	NaN	NaN	NaN	NaN
246	NaN	NaN	NaN	40.000000	10.0000	NaN	NaN
247	NaN	NaN	NaN	NaN	NaN	NaN	NaN
248	NaN	NaN	NaN	10.000000	5.0000	40.00	NaN
249	NaN	NaN	NaN	NaN	NaN	NaN	50.00
250	NaN	NaN	NaN	50.000000	5.0000	100.00	NaN
251	NaN	NaN	NaN	NaN	NaN	NaN	NaN
252	NaN	NaN	NaN	NaN	NaN	NaN	NaN
253	NaN	NaN	NaN	NaN	NaN	NaN	NaN
254	NaN	NaN	NaN	NaN	NaN	NaN	NaN
255	NaN	NaN	NaN	26.660000	0.8330	NaN	NaN
256	NaN	NaN	NaN	NaN	NaN	NaN	NaN
257	NaN	NaN	NaN	NaN	NaN	NaN	NaN
258	NaN	NaN	NaN	66.660000	0.6660	NaN	NaN
259	NaN	NaN	NaN	NaN	NaN	NaN	NaN
260	NaN	NaN	NaN	NaN	NaN	NaN	NaN
261	NaN	NaN	NaN	NaN	NaN	NaN	NaN
262	NaN	NaN	NaN	NaN	NaN	NaN	NaN
263	NaN	NaN	NaN	NaN	NaN	NaN	NaN
264	NaN	NaN	NaN	45.000000	25.0000	NaN	NaN
265	NaN	NaN	NaN	NaN	NaN	NaN	NaN
266	NaN	NaN	NaN	NaN	NaN	NaN	NaN
267	NaN	NaN	NaN	NaN	NaN	NaN	NaN
268	NaN	NaN	NaN	NaN	NaN	NaN	NaN
269	NaN	NaN	NaN	NaN	NaN	NaN	NaN
270	NaN	NaN	NaN	NaN	NaN	NaN	NaN
271	NaN	NaN	NaN	NaN	NaN	NaN	NaN
272	NaN	NaN	NaN	NaN	NaN	NaN	NaN
273	NaN	NaN	NaN	16.660000	1.1666	NaN	NaN
274	NaN	NaN	NaN	40.000000	1.0000	NaN	40.00
275	NaN	NaN	NaN	NaN	NaN	NaN	NaN
276	NaN	NaN	NaN	NaN	NaN	NaN	NaN
277	NaN	NaN	NaN	NaN	NaN	NaN	NaN
278	NaN	NaN	NaN	NaN	NaN	NaN	NaN
279	NaN	NaN	NaN	25.000000	0.5000	25.00	NaN

	Ashneer Investment Amount	Ashneer Investment Equity	Ashneer Debt Amount	Namita Investment Amount	Namita Investment Equity	Namita Debt Amount	An Investment Amount
280	NaN	NaN	NaN	NaN	NaN	NaN	NaN
281	NaN	NaN	NaN	NaN	NaN	NaN	37.5
282	NaN	NaN	NaN	NaN	NaN	NaN	NaN
283	NaN	NaN	NaN	NaN	NaN	NaN	20.0
284	NaN	NaN	NaN	NaN	NaN	NaN	NaN
285	NaN	NaN	NaN	NaN	NaN	NaN	NaN
286	NaN	NaN	NaN	NaN	NaN	NaN	NaN
287	NaN	NaN	NaN	NaN	NaN	NaN	NaN
288	NaN	NaN	NaN	NaN	NaN	NaN	NaN
289	NaN	NaN	NaN	25.000000	2.0800	NaN	NaN
290	NaN	NaN	NaN	NaN	NaN	NaN	NaN
291	NaN	NaN	NaN	NaN	NaN	NaN	NaN
292	NaN	NaN	NaN	NaN	NaN	NaN	NaN
293	NaN	NaN	NaN	NaN	NaN	NaN	NaN
294	NaN	NaN	NaN	75.000000	15.0000	NaN	NaN
295	NaN	NaN	NaN	NaN	NaN	NaN	NaN
296	NaN	NaN	NaN	NaN	NaN	NaN	NaN
297	NaN	NaN	NaN	20.000000	1.0000	30.00	NaN
298	NaN	NaN	NaN	NaN	NaN	NaN	NaN
299	NaN	NaN	NaN	NaN	NaN	NaN	NaN
300	NaN	NaN	NaN	25.000000	1.2500	NaN	NaN
301	NaN	NaN	NaN	NaN	NaN	NaN	NaN
302	NaN	NaN	NaN	NaN	NaN	NaN	NaN
303	NaN	NaN	NaN	NaN	NaN	NaN	NaN
304	NaN	NaN	NaN	50.000000	5.0000	NaN	NaN
305	NaN	NaN	NaN	NaN	NaN	NaN	NaN
306	NaN	NaN	NaN	33.330000	0.3330	16.66	NaN
307	NaN	NaN	NaN	NaN	NaN	NaN	NaN
308	NaN	NaN	NaN	NaN	NaN	NaN	NaN
309	NaN	NaN	NaN	NaN	NaN	NaN	NaN
310	NaN	NaN	NaN	5.000000	5.0000	NaN	5.0
311	NaN	NaN	NaN	20.000000	2.0000	NaN	20.0
312	NaN	NaN	NaN	NaN	NaN	NaN	NaN
313	NaN	NaN	NaN	NaN	NaN	NaN	NaN
314	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Ashneer Investment Amount	Ashneer Investment Equity	Ashneer Debt Amount	Namita Investment Amount	Namita Investment Equity	Namita Debt Amount	Anupam Investment Amount
315	NaN	NaN	NaN	NaN	NaN	NaN	NaN
316	NaN	NaN	NaN	NaN	NaN	NaN	NaN
317	NaN	NaN	NaN	NaN	NaN	NaN	NaN
318	NaN	NaN	NaN	NaN	NaN	NaN	NaN
319	NaN	NaN	NaN	NaN	NaN	NaN	NaN

**Nan in above columns indicates the some of deal were not accepted by the corresponding sharks , so we can fill nan with 0**

```
In [63]: df[df.columns[35:-1]]=df[df.columns[35:-1]].fillna(0)
```

### Verifying the results

```
In [64]: df[df.columns[35:-1]].isnull().sum()
```

```
Out[64]: Ashneer Investment Amount      0
Ashneer Investment Equity            0
Ashneer Debt Amount                0
Namita Investment Amount           0
Namita Investment Equity          0
Namita Debt Amount                0
Anupam Investment Amount          0
Anupam Investment Equity         0
Anupam Debt Amount                0
Vineeta Investment Amount         0
Vineeta Investment Equity        0
Vineeta Debt Amount              0
Aman Investment Amount           0
Aman Investment Equity          0
Aman Debt Amount                0
Peyush Investment Amount         0
Peyush Investment Equity        0
Peyush Debt Amount              0
Ghazal Investment Amount        0
Ghazal Investment Equity       0
Ghazal Debt Amount              0
Amit Investment Amount          0
Amit Investment Equity         0
Amit Debt Amount                0
Guest Investment Amount         0
Guest Investment Equity        0
Guest Debt Amount               0
dtype: int64
```

**Now , Verifying weather the missing values have been filled or not**

```
In [65]: df.isnull().sum().sum()
```

```
Out[65]: 0
```

**Data is now , Free from the missing values**

## Checking the duplicacy in data

```
In [66]: df.duplicated().sum()
```

```
Out[66]: 0
```

```
In [67]: df
```

Out[67]:

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	Star
0	1	20-Dec-21	04-Feb-22	1	Badlegi Business Ki Tasveer	1	Bli
1	1	20-Dec-21	04-Feb-22	1	Badlegi Business Ki Tasveer	2	B
2	1	20-Dec-21	04-Feb-22	1	Badlegi Business Ki Tasveer	3	HeartL
3	1	20-Dec-21	04-Feb-22	2	Insaan, Ideas Aur Sapne	4	
4	1	20-Dec-21	04-Feb-22	2	Insaan, Ideas Aur Sapne	5	He
5	1	20-Dec-21	04-Feb-22	2	Insaan, Ideas Aur Sapne	6	
6	1	20-Dec-21	04-Feb-22	3	Aam Aadmi Ke Business Ideas	7	
7	1	20-Dec-21	04-Feb-22	3	Aam Aadmi Ke Business Ideas	8	
8	1	20-Dec-21	04-Feb-22	3	Aam Aadmi Ke Business Ideas	9	
9	1	20-Dec-21	04-Feb-22	4	Entrepreneurship Ki Wave	10	
10	1	20-Dec-21	04-Feb-22	4	Entrepreneurship Ki Wave	11	
11	1	20-Dec-21	04-Feb-22	4	Entrepreneurship Ki Wave	12	
12	1	20-Dec-21	04-Feb-22	5	Hunt For Interesting Business	13	R
13	1	20-Dec-21	04-Feb-22	5	Hunt For Interesting Business	14	I
14	1	20-Dec-21	04-Feb-22	5	Hunt For Interesting Business	15	Shraw
15	1	20-Dec-21	04-Feb-22	6	New Week, New Ideas	16	S
16	1	20-Dec-21	04-Feb-22	6	New Week, New Ideas	17	M
17	1	20-Dec-21	04-Feb-22	6	New Week, New Ideas	18	
18	1	20-Dec-21	04-Feb-22	7	A Never Give Up Spirit	19	Raisir

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	St
19	1	20-Dec-21	04-Feb-22	7	A Never Give Up Spirit	20	
20	1	20-Dec-21	04-Feb-22	7	A Never Give Up Spirit	21	
21	1	20-Dec-21	04-Feb-22	7	A Never Give Up Spirit	22	
22	1	20-Dec-21	04-Feb-22	8	Shark Ko Impress Karne Wale Ideas	23	E
23	1	20-Dec-21	04-Feb-22	8	Shark Ko Impress Karne Wale Ideas	24	Vivaly
24	1	20-Dec-21	04-Feb-22	8	Shark Ko Impress Karne Wale Ideas	25	M
25	1	20-Dec-21	04-Feb-22	9	Defining Innovations	26	
26	1	20-Dec-21	04-Feb-22	9	Defining Innovations	27	
27	1	20-Dec-21	04-Feb-22	9	Defining Innovations	28	Kab
28	1	20-Dec-21	04-Feb-22	10	Passion About Entrepreneurship	29	
29	1	20-Dec-21	04-Feb-22	10	Passion About Entrepreneurship	30	
30	1	20-Dec-21	04-Feb-22	10	Passion About Entrepreneurship	31	
31	1	20-Dec-21	04-Feb-22	11	Investment Paane Ka Sapna	32	
32	1	20-Dec-21	04-Feb-22	11	Investment Paane Ka Sapna	33	ARRCOATSUR
33	1	20-Dec-21	04-Feb-22	11	Investment Paane Ka Sapna	34	
34	1	20-Dec-21	04-Feb-22	12	Ek Idea Aur Uske Do Sides	35	
35	1	20-Dec-21	04-Feb-22	12	Ek Idea Aur Uske Do Sides	36	
36	1	20-Dec-21	04-Feb-22	12	Ek Idea Aur Uske Do Sides	37	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	St
37	1	20-Dec-21	04-Feb-22	13	Ideas By Young Entrepreneurs	38	
38	1	20-Dec-21	04-Feb-22	13	Ideas By Young Entrepreneurs	39	
39	1	20-Dec-21	04-Feb-22	13	Ideas By Young Entrepreneurs	40	Th
40	1	20-Dec-21	04-Feb-22	14	Naye Aur Nayab Pitchers	41	The
41	1	20-Dec-21	04-Feb-22	14	Naye Aur Nayab Pitchers	42	Morril
42	1	20-Dec-21	04-Feb-22	14	Naye Aur Nayab Pitchers	43	Goo
43	1	20-Dec-21	04-Feb-22	15	It's Time To Change	44	Harr
44	1	20-Dec-21	04-Feb-22	15	It's Time To Change	45	
45	1	20-Dec-21	04-Feb-22	15	It's Time To Change	46	
46	1	20-Dec-21	04-Feb-22	16	Winning The Sharks Trust	47	E
47	1	20-Dec-21	04-Feb-22	16	Winning The Sharks Trust	48	
48	1	20-Dec-21	04-Feb-22	16	Winning The Sharks Trust	49	E
49	1	20-Dec-21	04-Feb-22	16	Winning The Sharks Trust	50	
50	1	20-Dec-21	04-Feb-22	17	A Wave Of Startups	51	FindYc
51	1	20-Dec-21	04-Feb-22	17	A Wave Of Startups	52	A
52	1	20-Dec-21	04-Feb-22	17	A Wave Of Startups	53	
53	1	20-Dec-21	04-Feb-22	17	A Wave Of Startups	54	
54	1	20-Dec-21	04-Feb-22	18	Investing In Profitable Businesses	55	Morr

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	St
55	1	20-Dec-21	04-Feb-22	18	Investing In Profitable Businesses	56	India
56	1	20-Dec-21	04-Feb-22	18	Investing In Profitable Businesses	57	
57	1	20-Dec-21	04-Feb-22	18	Investing In Profitable Businesses	58	
58	1	20-Dec-21	04-Feb-22	19	Forming An Idea And Bagging A Deal	59	
59	1	20-Dec-21	04-Feb-22	19	Forming An Idea And Bagging A Deal	60	
60	1	20-Dec-21	04-Feb-22	19	Forming An Idea And Bagging A Deal	61	
61	1	20-Dec-21	04-Feb-22	19	Forming An Idea And Bagging A Deal	62	
62	1	20-Dec-21	04-Feb-22	20	A Variety Of Ideas	63	T
63	1	20-Dec-21	04-Feb-22	20	A Variety Of Ideas	64	
64	1	20-Dec-21	04-Feb-22	20	A Variety Of Ideas	65	
65	1	20-Dec-21	04-Feb-22	21	Game-changing Ideas	66	
66	1	20-Dec-21	04-Feb-22	21	Game-changing Ideas	67	S
67	1	20-Dec-21	04-Feb-22	21	Game-changing Ideas	68	The
68	1	20-Dec-21	04-Feb-22	22	Turning Ideas Into Businesses	69	I
69	1	20-Dec-21	04-Feb-22	22	Turning Ideas Into Businesses	70	Poo
70	1	20-Dec-21	04-Feb-22	22	Turning Ideas Into Businesses	71	
71	1	20-Dec-21	04-Feb-22	22	Turning Ideas Into Businesses	72	
72	1	20-Dec-21	04-Feb-22	23	Investing In Innovation	73	N.
73	1	20-Dec-21	04-Feb-22	23	Investing In Innovation	74	U

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	Star	
	74	1	20-Dec-21	04-Feb-22	23	Investing In Innovation	75	Gu
	75	1	20-Dec-21	04-Feb-22	23	Investing In Innovation	76	M
	76	1	20-Dec-21	04-Feb-22	24	A Decade Of Indian Entrepreneurship	77	
	77	1	20-Dec-21	04-Feb-22	24	A Decade Of Indian Entrepreneurship	78	
	78	1	20-Dec-21	04-Feb-22	24	A Decade Of Indian Entrepreneurship	79	Nu
	79	1	20-Dec-21	04-Feb-22	25	An Ocean Of Opportunities	80	
	80	1	20-Dec-21	04-Feb-22	25	An Ocean Of Opportunities	81	Sunfox
	81	1	20-Dec-21	04-Feb-22	25	An Ocean Of Opportunities	82	
	82	1	20-Dec-21	04-Feb-22	26	Revolutionary Ideas	83	Isa
	83	1	20-Dec-21	04-Feb-22	26	Revolutionary Ideas	84	Jula
	84	1	20-Dec-21	04-Feb-22	26	Revolutionary Ideas	85	
	85	1	20-Dec-21	04-Feb-22	27	Investing In The Future Of India	86	
	86	1	20-Dec-21	04-Feb-22	27	Investing In The Future Of India	87	WattTe
	87	1	20-Dec-21	04-Feb-22	27	Investing In The Future Of India	88	Alistei
	88	1	20-Dec-21	04-Feb-22	27	Investing In The Future Of India	89	Insurance
	89	1	20-Dec-21	04-Feb-22	28	Meeting The New India Minds	90	
	90	1	20-Dec-21	04-Feb-22	28	Meeting The New India Minds	91	I
	91	1	20-Dec-21	04-Feb-22	28	Meeting The New India Minds	92	GoldS
	92	1	20-Dec-21	04-Feb-22	29	Businesses Of Tomorrow	93	'
	93	1	20-Dec-21	04-Feb-22	29	Businesses Of Tomorrow	94	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	Star
	94	1	20-Dec-21	04-Feb-22	29	Businesses Of Tomorrow	95
	95	1	20-Dec-21	04-Feb-22	30	Sharks Ki Expertise	96
	96	1	20-Dec-21	04-Feb-22	30	Sharks Ki Expertise	97
	97	1	20-Dec-21	04-Feb-22	30	Sharks Ki Expertise	98
	98	1	20-Dec-21	04-Feb-22	30	Sharks Ki Expertise	99
	99	1	20-Dec-21	04-Feb-22	31	Entrepreneurship Ki Raah	100
	100	1	20-Dec-21	04-Feb-22	31	Entrepreneurship Ki Raah	101
	101	1	20-Dec-21	04-Feb-22	31	Entrepreneurship Ki Raah	102
	102	1	20-Dec-21	04-Feb-22	31	Entrepreneurship Ki Raah	103
	103	1	20-Dec-21	04-Feb-22	32	The Road To Success	104
	104	1	20-Dec-21	04-Feb-22	32	The Road To Success	105
	105	1	20-Dec-21	04-Feb-22	32	The Road To Success	106
	106	1	20-Dec-21	04-Feb-22	32	The Road To Success	107
	107	1	20-Dec-21	04-Feb-22	33	Life-Changing Ideas	108
	108	1	20-Dec-21	04-Feb-22	33	Life-Changing Ideas	109
	109	1	20-Dec-21	04-Feb-22	33	Life-Changing Ideas	110
	110	1	20-Dec-21	04-Feb-22	33	Life-Changing Ideas	111
	111	1	20-Dec-21	04-Feb-22	34	Scaling Ambitions	112
	112	1	20-Dec-21	04-Feb-22	34	Scaling Ambitions	113

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	St
<b>113</b>	1	20-Dec-21	04-Feb-22	34	Scaling Ambitions	114	C
<b>114</b>	1	20-Dec-21	04-Feb-22	34	Scaling Ambitions	115	
<b>115</b>	1	20-Dec-21	04-Feb-22	35	The Final Destination	116	
<b>116</b>	1	20-Dec-21	04-Feb-22	35	The Final Destination	117	
<b>117</b>	1	20-Dec-21	04-Feb-22	35	The Final Destination	118	
<b>118</b>	1	20-Dec-21	04-Feb-22	36	Gateway To Shark Tank India	119	
<b>119</b>	1	20-Dec-21	04-Feb-22	36	Gateway To Shark Tank India	120	F
<b>120</b>	1	20-Dec-21	04-Feb-22	36	Gateway To Shark Tank India	121	St
<b>121</b>	1	20-Dec-21	04-Feb-22	36	Gateway To Shark Tank India	122	
<b>122</b>	1	20-Dec-21	04-Feb-22	0	Unseen	123	
<b>123</b>	1	20-Dec-21	04-Feb-22	0	Unseen	124	
<b>124</b>	1	20-Dec-21	04-Feb-22	0	Unseen	125	
<b>125</b>	1	20-Dec-21	04-Feb-22	0	Unseen	126	
<b>126</b>	1	20-Dec-21	04-Feb-22	0	Unseen	127	I
<b>127</b>	1	20-Dec-21	04-Feb-22	0	Unseen	128	
<b>128</b>	1	20-Dec-21	04-Feb-22	0	Unseen	129	
<b>129</b>	1	20-Dec-21	04-Feb-22	0	Unseen	130	
<b>130</b>	1	20-Dec-21	04-Feb-22	0	Unseen	131	
<b>131</b>	1	20-Dec-21	04-Feb-22	0	Unseen	132	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	St
132	1	20-Dec-21	04-Feb-22	0	Unseen	133	
133	1	20-Dec-21	04-Feb-22	0	Unseen	134	
134	1	20-Dec-21	04-Feb-22	0	Unseen	135	Sp
135	1	20-Dec-21	04-Feb-22	0	Unseen	136	
136	1	20-Dec-21	04-Feb-22	0	Unseen	137	
137	1	20-Dec-21	04-Feb-22	0	Unseen	138	
138	1	20-Dec-21	04-Feb-22	0	Unseen	139	
139	1	20-Dec-21	04-Feb-22	0	Unseen	140	
140	1	20-Dec-21	04-Feb-22	0	Unseen	141	
141	1	20-Dec-21	04-Feb-22	0	Unseen	142	
142	1	20-Dec-21	04-Feb-22	0	Unseen	143	Ba
143	1	20-Dec-21	04-Feb-22	0	Unseen	144	MyWea
144	1	20-Dec-21	04-Feb-22	0	Unseen	145	
145	1	20-Dec-21	04-Feb-22	0	Unseen	146	
146	1	20-Dec-21	04-Feb-22	0	Unseen	147	C
147	1	20-Dec-21	04-Feb-22	0	Unseen	148	Inali
148	1	20-Dec-21	04-Feb-22	0	Unseen	149	Meera's
149	1	20-Dec-21	04-Feb-22	0	Unseen	150	
150	1	20-Dec-21	04-Feb-22	0	Unseen	151	
151	1	20-Dec-21	04-Feb-22	0	Unseen	152	
152	2	02-Jan-23	10-Mar-23	1	Entrepreneurship Ki Leher Ek Baar	153	

Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	Star
Firse						
153	2	02-Jan-23	10-Mar-23	1	Entrepreneurship Ki Leher Ek Baar Firse	154
154	2	02-Jan-23	10-Mar-23	1	Entrepreneurship Ki Leher Ek Baar Firse	155
155	2	02-Jan-23	10-Mar-23	2	A Bigger Vision	156
156	2	02-Jan-23	10-Mar-23	2	A Bigger Vision	157
157	2	02-Jan-23	10-Mar-23	2	A Bigger Vision	158
158	2	02-Jan-23	10-Mar-23	3	Thrilling and Thunderous Pitches	159
159	2	02-Jan-23	10-Mar-23	3	Thrilling and Thunderous Pitches	160
160	2	02-Jan-23	10-Mar-23	3	Thrilling and Thunderous Pitches	161
161	2	02-Jan-23	10-Mar-23	4	Ideas Meets Opportunity	162
162	2	02-Jan-23	10-Mar-23	4	Ideas Meets Opportunity	163
163	2	02-Jan-23	10-Mar-23	4	Ideas Meets Opportunity	164
164	2	02-Jan-23	10-Mar-23	5	Investing in the Future of India	165
165	2	02-Jan-23	10-Mar-23	5	Investing in the Future of India	166
166	2	02-Jan-23	10-Mar-23	5	Investing in the Future of India	167
167	2	02-Jan-23	10-Mar-23	6	Determined Entrepreneurs	168
168	2	02-Jan-23	10-Mar-23	6	Determined Entrepreneurs	169
169	2	02-Jan-23	10-Mar-23	6	Determined Entrepreneurs	170
Bhaskar's Pitch						

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	Star
170	2	02-Jan-23	10-Mar-23	7	Shaandar Businesses	171	Gunjan
171	2	02-Jan-23	10-Mar-23	7	Shaandar Businesses	172	The
172	2	02-Jan-23	10-Mar-23	7	Shaandar Businesses	173	
173	2	02-Jan-23	10-Mar-23	8	Investment with Intent	174	Atypic
174	2	02-Jan-23	10-Mar-23	8	Investment with Intent	175	Housel
175	2	02-Jan-23	10-Mar-23	8	Investment with Intent	176	Magic
176	2	02-Jan-23	10-Mar-23	9	Invest In Lifestyle	177	
177	2	02-Jan-23	10-Mar-23	9	Invest In Lifestyle	178	
178	2	02-Jan-23	10-Mar-23	10	Zillionaire Banne Ki Chah	179	
179	2	02-Jan-23	10-Mar-23	10	Zillionaire Banne Ki Chah	180	
180	2	02-Jan-23	10-Mar-23	10	Zillionaire Banne Ki Chah	181	
181	2	02-Jan-23	10-Mar-23	11	Investing The Right Way	182	ABCSp
182	2	02-Jan-23	10-Mar-23	11	Investing The Right Way	183	
183	2	02-Jan-23	10-Mar-23	11	Investing The Right Way	184	
184	2	02-Jan-23	10-Mar-23	12	Pitchers Ki Undying Spirit	185	
185	2	02-Jan-23	10-Mar-23	12	Pitchers Ki Undying Spirit	186	
186	2	02-Jan-23	10-Mar-23	12	Pitchers Ki Undying Spirit	187	JaipurWa
187	2	02-Jan-23	10-Mar-23	13	Up And Coming Business Ideas	188	

Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	Status
188	2	02-Jan-23	10-Mar-23	13	Up And Coming Business Ideas	189
189	2	02-Jan-23	10-Mar-23	13	Up And Coming Business Ideas	190
190	2	02-Jan-23	10-Mar-23	14	Investment Worthy Ideas	191
191	2	02-Jan-23	10-Mar-23	14	Investment Worthy Ideas	192
192	2	02-Jan-23	10-Mar-23	14	Investment Worthy Ideas	193
193	2	02-Jan-23	10-Mar-23	15	Changing The Face Of Indian Entrepreneurship	194
194	2	02-Jan-23	10-Mar-23	15	Changing The Face Of Indian Entrepreneurship	195
195	2	02-Jan-23	10-Mar-23	15	Changing The Face Of Indian Entrepreneurship	196
196	2	02-Jan-23	10-Mar-23	16	Pitchers Ki Taiyyari	197
197	2	02-Jan-23	10-Mar-23	16	Pitchers Ki Taiyyari	198
198	2	02-Jan-23	10-Mar-23	16	Pitchers Ki Taiyyari	199
199	2	02-Jan-23	10-Mar-23	17	Innovation Hardwork And Diligence	200
200	2	02-Jan-23	10-Mar-23	17	Innovation Hardwork And Diligence	201
201	2	02-Jan-23	10-Mar-23	17	Innovation Hardwork And Diligence	202
202	2	02-Jan-23	10-Mar-23	18	Business Ideas With Potential	203
203	2	02-Jan-23	10-Mar-23	18	Business Ideas With Potential	204
204	2	02-Jan-23	10-Mar-23	18	Business Ideas With Potential	205
205	2	02-Jan-23	10-Mar-23	18	Business Ideas With Potential	206
206	2	02-Jan-23	10-Mar-23	19	Building Brands For India	207

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	St
<b>207</b>	2	02-Jan-23	10-Mar-23	19	Building Brands For India	208	
<b>208</b>	2	02-Jan-23	10-Mar-23	19	Building Brands For India	209	
<b>209</b>	2	02-Jan-23	10-Mar-23	20	Nurturing Indian Entrepreneurs	210	
<b>210</b>	2	02-Jan-23	10-Mar-23	20	Nurturing Indian Entrepreneurs	211	
<b>211</b>	2	02-Jan-23	10-Mar-23	20	Nurturing Indian Entrepreneurs	212	
<b>212</b>	2	02-Jan-23	10-Mar-23	21	Adhbhut Aur Anokhe Entrepreneurs	213	Chee
<b>213</b>	2	02-Jan-23	10-Mar-23	21	Adhbhut Aur Anokhe Entrepreneurs	214	
<b>214</b>	2	02-Jan-23	10-Mar-23	21	Adhbhut Aur Anokhe Entrepreneurs	215	
<b>215</b>	2	02-Jan-23	10-Mar-23	21	Adhbhut Aur Anokhe Entrepreneurs	216	
<b>216</b>	2	02-Jan-23	10-Mar-23	22	Making Big Businesses	217	
<b>217</b>	2	02-Jan-23	10-Mar-23	22	Making Big Businesses	218	
<b>218</b>	2	02-Jan-23	10-Mar-23	22	Making Big Businesses	219	
<b>219</b>	2	02-Jan-23	10-Mar-23	23	Changing The World	220	
<b>220</b>	2	02-Jan-23	10-Mar-23	23	Changing The World	221	Swade
<b>221</b>	2	02-Jan-23	10-Mar-23	23	Changing The World	222	
<b>222</b>	2	02-Jan-23	10-Mar-23	23	Changing The World	223	
<b>223</b>	2	02-Jan-23	10-Mar-23	24	India Ke Incredible Entrepreneurs	224	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	St
<b>224</b>	2	02-Jan-23	10-Mar-23	24	India Ke Incredible Entrepreneurs	225	
<b>225</b>	2	02-Jan-23	10-Mar-23	24	India Ke Incredible Entrepreneurs	226	
<b>226</b>	2	02-Jan-23	10-Mar-23	25	Badhta India	227	
<b>227</b>	2	02-Jan-23	10-Mar-23	25	Badhta India	228	Sha
<b>228</b>	2	02-Jan-23	10-Mar-23	25	Badhta India	229	
<b>229</b>	2	02-Jan-23	10-Mar-23	26	Bharat Badal Raha Hai	230	
<b>230</b>	2	02-Jan-23	10-Mar-23	26	Bharat Badal Raha Hai	231	
<b>231</b>	2	02-Jan-23	10-Mar-23	26	Bharat Badal Raha Hai	232	
<b>232</b>	2	02-Jan-23	10-Mar-23	27	Nayi Soch Naye Vichaar	233	The
<b>233</b>	2	02-Jan-23	10-Mar-23	27	Nayi Soch Naye Vichaar	234	
<b>234</b>	2	02-Jan-23	10-Mar-23	27	Nayi Soch Naye Vichaar	235	
<b>235</b>	2	02-Jan-23	10-Mar-23	27	Nayi Soch Naye Vichaar	236	
<b>236</b>	2	02-Jan-23	10-Mar-23	28	Game Changers	237	
<b>237</b>	2	02-Jan-23	10-Mar-23	28	Game Changers	238	
<b>238</b>	2	02-Jan-23	10-Mar-23	28	Game Changers	239	
<b>239</b>	2	02-Jan-23	10-Mar-23	29	Pulse Of The Country	240	
<b>240</b>	2	02-Jan-23	10-Mar-23	29	Pulse Of The Country	241	
<b>241</b>	2	02-Jan-23	10-Mar-23	29	Pulse Of The Country	242	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	St
<b>242</b>	2	02-Jan-23	10-Mar-23	30	Changing India	243	
<b>243</b>	2	02-Jan-23	10-Mar-23	30	Changing India	244	
<b>244</b>	2	02-Jan-23	10-Mar-23	30	Changing India	245	
<b>245</b>	2	02-Jan-23	10-Mar-23	31	Innovations And Investments	246	
<b>246</b>	2	02-Jan-23	10-Mar-23	31	Innovations And Investments	247	
<b>247</b>	2	02-Jan-23	10-Mar-23	31	Innovations And Investments	248	
<b>248</b>	2	02-Jan-23	10-Mar-23	32	Pitch Perfect	249	
<b>249</b>	2	02-Jan-23	10-Mar-23	32	Pitch Perfect	250	
<b>250</b>	2	02-Jan-23	10-Mar-23	32	Pitch Perfect	251	
<b>251</b>	2	02-Jan-23	10-Mar-23	32	Pitch Perfect	252	
<b>252</b>	2	02-Jan-23	10-Mar-23	33	Growing With India	253	
<b>253</b>	2	02-Jan-23	10-Mar-23	33	Growing With India	254	Theft
<b>254</b>	2	02-Jan-23	10-Mar-23	33	Growing With India	255	
<b>255</b>	2	02-Jan-23	10-Mar-23	34	Growing Ideas Into Successful Businesses	256	
<b>256</b>	2	02-Jan-23	10-Mar-23	34	Growing Ideas Into Successful Businesses	257	MidNight

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	Star Rating
257	2	02-Jan-23	10-Mar-23	34	Growing Ideas Into Successful Businesses	258	4.5
258	2	02-Jan-23	10-Mar-23	35	Business Ideas Ka Pitara	259	4.5
259	2	02-Jan-23	10-Mar-23	35	Business Ideas Ka Pitara	260	4.5
260	2	02-Jan-23	10-Mar-23	35	Business Ideas Ka Pitara	261	4.5
261	2	02-Jan-23	10-Mar-23	35	Business Ideas Ka Pitara	262	4.5
262	2	02-Jan-23	10-Mar-23	36	Anokhe Pitchers Ke Anokhe Ideas	263	4.5
263	2	02-Jan-23	10-Mar-23	36	Anokhe Pitchers Ke Anokhe Ideas	264	4.5
264	2	02-Jan-23	10-Mar-23	36	Anokhe Pitchers Ke Anokhe Ideas	265	4.5
265	2	02-Jan-23	10-Mar-23	37	Bharat Ka Kal	266	4.5
266	2	02-Jan-23	10-Mar-23	37	Bharat Ka Kal	267	4.5
267	2	02-Jan-23	10-Mar-23	37	Bharat Ka Kal	268	4.5
268	2	02-Jan-23	10-Mar-23	37	Bharat Ka Kal	269	4.5
269	2	02-Jan-23	10-Mar-23	38	Innovation And Imagination	270	4.5
270	2	02-Jan-23	10-Mar-23	38	Innovation And Imagination	271	4.5
271	2	02-Jan-23	10-Mar-23	38	Innovation And Imagination	272	4.5
272	2	02-Jan-23	10-Mar-23	38	Innovation And Imagination	273	4.5
273	2	02-Jan-23	10-Mar-23	39	Revolutionary Ideas And Successful Businesses	274	4.5
274	2	02-Jan-23	10-Mar-23	39	Revolutionary Ideas And	275	4.5

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	Star
Successful Businesses							
<b>275</b>	2	02-Jan-23	10-Mar-23	39	Revolutionary Ideas And Successful Businesses	276	Craig
<b>276</b>	2	02-Jan-23	10-Mar-23	39	Revolutionary Ideas And Successful Businesses	277	
<b>277</b>	2	02-Jan-23	10-Mar-23	40	Creating Valuable Businesses	278	
<b>278</b>	2	02-Jan-23	10-Mar-23	40	Creating Valuable Businesses	279	Trevor
<b>279</b>	2	02-Jan-23	10-Mar-23	40	Creating Valuable Businesses	280	
<b>280</b>	2	02-Jan-23	10-Mar-23	41	Out Of The Box Business Ideas	281	
<b>281</b>	2	02-Jan-23	10-Mar-23	41	Out Of The Box Business Ideas	282	
<b>282</b>	2	02-Jan-23	10-Mar-23	41	Out Of The Box Business Ideas	283	
<b>283</b>	2	02-Jan-23	10-Mar-23	41	Out Of The Box Business Ideas	284	What'
<b>284</b>	2	02-Jan-23	10-Mar-23	42	Building Businesses From Scratch	285	
<b>285</b>	2	02-Jan-23	10-Mar-23	42	Building Businesses From Scratch	286	
<b>286</b>	2	02-Jan-23	10-Mar-23	42	Building Businesses From Scratch	287	
<b>287</b>	2	02-Jan-23	10-Mar-23	42	Building Businesses From Scratch	288	
<b>288</b>	2	02-Jan-23	10-Mar-23	43	Creating Value Through Ideas	289	
<b>289</b>	2	02-Jan-23	10-Mar-23	43	Creating Value Through Ideas	290	
<b>290</b>	2	02-Jan-23	10-Mar-23	43	Creating Value Through Ideas	291	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	St
<b>291</b>	2	02-Jan-23	10-Mar-23	43	Creating Value Through Ideas	292	
<b>292</b>	2	02-Jan-23	10-Mar-23	44	Entrepreneurship Ka Junoon	293	He
<b>293</b>	2	02-Jan-23	10-Mar-23	44	Entrepreneurship Ka Junoon	294	
<b>294</b>	2	02-Jan-23	10-Mar-23	44	Entrepreneurship Ka Junoon	295	Lc
<b>295</b>	2	02-Jan-23	10-Mar-23	44	Entrepreneurship Ka Junoon	296	
<b>296</b>	2	02-Jan-23	10-Mar-23	45	True Meaning Of Entrepreneurship	297	
<b>297</b>	2	02-Jan-23	10-Mar-23	45	True Meaning Of Entrepreneurship	298	
<b>298</b>	2	02-Jan-23	10-Mar-23	45	True Meaning Of Entrepreneurship	299	
<b>299</b>	2	02-Jan-23	10-Mar-23	46	Different Colours Of Entrepreneurship	300	
<b>300</b>	2	02-Jan-23	10-Mar-23	46	Different Colours Of Entrepreneurship	301	TheF
<b>301</b>	2	02-Jan-23	10-Mar-23	46	Different Colours Of Entrepreneurship	302	
<b>302</b>	2	02-Jan-23	10-Mar-23	46	Different Colours Of Entrepreneurship	303	TheHe
<b>303</b>	2	02-Jan-23	10-Mar-23	47	Tunnel Se Tank Tak Ka Safar	304	
<b>304</b>	2	02-Jan-23	10-Mar-23	47	Tunnel Se Tank Tak Ka Safar	305	
<b>305</b>	2	02-Jan-23	10-Mar-23	47	Tunnel Se Tank Tak Ka Safar	306	TheB Chapt
<b>306</b>	2	02-Jan-23	10-Mar-23	48	Pitchers, Investments And Businesses	307	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	Status
307	2	02-Jan-23	10-Mar-23	48	Pitchers, Investments And Businesses	308	Same
308	2	02-Jan-23	10-Mar-23	48	Pitchers, Investments And Businesses	309	Bottom
309	2	02-Jan-23	10-Mar-23	48	Pitchers, Investments And Businesses	310	
310	2	02-Jan-23	10-Mar-23	49	Businesses Adding Value To Society	311	Final
311	2	02-Jan-23	10-Mar-23	49	Businesses Adding Value To Society	312	
312	2	02-Jan-23	10-Mar-23	49	Businesses Adding Value To Society	313	
313	2	02-Jan-23	10-Mar-23	49	Businesses Adding Value To Society	314	
314	2	02-Jan-23	10-Mar-23	50	Season Finale With The Sharks	315	
315	2	02-Jan-23	10-Mar-23	50	Season Finale With The Sharks	316	
316	2	02-Jan-23	10-Mar-23	51	Gateway To Shark Tank India	317	
317	2	02-Jan-23	10-Mar-23	51	Gateway To Shark Tank India	318	
318	2	02-Jan-23	10-Mar-23	51	Gateway To Shark Tank India	319	
319	2	02-Jan-23	10-Mar-23	51	Gateway To Shark Tank India	320	

### Step 8 : Analysis and Insights

How many season of shark tank india

In [68]: df["Season Number"].unique()

```
In [68]: array([1, 2], dtype=int64)
```

```
In [69]: pd.DataFrame(df["Season Number"].unique(), index=["Season 1", "Season 2"])
```

Season	
Season 1	1
Season 2	2

**Observation :** There is Data of two season :

- Season 1
- Season 2

## when both the season of shark tank india aired

```
In [70]: season1=df["Season Start"].unique()
season1
```

```
Out[70]: array(['20-Dec-21', '02-Jan-23'], dtype=object)
```

```
In [71]: season2=df["Season End"].unique()
season2
```

```
Out[71]: array(['04-Feb-22', '10-Mar-23'], dtype=object)
```

```
In [72]: x=pd.DataFrame([[season1[0],season2[0]],[season1[1],season2[1]]],index=[1,2])
x
```

	start_aired_date	end_aired_date
season1	20-Dec-21	04-Feb-22
season2	02-Jan-23	10-Mar-23

## Total number telecast till now

```
In [73]: df["Episode Number"].unique()
```

```
Out[73]: array([ 1,  2,  3,  4,  5,  6,  7,  8,  9, 10, 11, 12, 13, 14, 15,
 16, 17,
           18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32,
 33, 34,
           35, 36,  0, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48,
 49, 50,
           51], dtype=int64)
```

```
In [74]: df[df["Episode Number"]==0].head()
```

Out[74]:

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	Startup Name
122	1	20-Dec-21	04-Feb-22	0	Unseen	123	WitBlox Mai
123	1	20-Dec-21	04-Feb-22	0	Unseen	124	Kineer
124	1	20-Dec-21	04-Feb-22	0	Unseen	125	PiChem Mai
125	1	20-Dec-21	04-Feb-22	0	Unseen	126	Clensta Beau
126	1	20-Dec-21	04-Feb-22	0	Unseen	127	InfinitiInsects A



**In this episode number is 0 means unseen pitches so we exclude unseen pitches in order to find there out total number of episodes**

In [75]: `episodes=df[df["Episode Number"]!=0] ## fetching telecasted episodes`

Out[75]:

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
0	1	20-Dec-21	04-Feb-22	1	Badlegi Business Ki Tasveer	1	
1	1	20-Dec-21	04-Feb-22	1	Badlegi Business Ki Tasveer	2	
2	1	20-Dec-21	04-Feb-22	1	Badlegi Business Ki Tasveer	3	Hear
3	1	20-Dec-21	04-Feb-22	2	Insaan, Ideas Aur Sapne	4	
4	1	20-Dec-21	04-Feb-22	2	Insaan, Ideas Aur Sapne	5	
5	1	20-Dec-21	04-Feb-22	2	Insaan, Ideas Aur Sapne	6	
6	1	20-Dec-21	04-Feb-22	3	Aam Aadmi Ke Business Ideas	7	
7	1	20-Dec-21	04-Feb-22	3	Aam Aadmi Ke Business Ideas	8	
8	1	20-Dec-21	04-Feb-22	3	Aam Aadmi Ke Business Ideas	9	
9	1	20-Dec-21	04-Feb-22	4	Entrepreneurship Ki Wave	10	
10	1	20-Dec-21	04-Feb-22	4	Entrepreneurship Ki Wave	11	
11	1	20-Dec-21	04-Feb-22	4	Entrepreneurship Ki Wave	12	
12	1	20-Dec-21	04-Feb-22	5	Hunt For Interesting Business	13	
13	1	20-Dec-21	04-Feb-22	5	Hunt For Interesting Business	14	
14	1	20-Dec-21	04-Feb-22	5	Hunt For Interesting Business	15	Shra
15	1	20-Dec-21	04-Feb-22	6	New Week, New Ideas	16	
16	1	20-Dec-21	04-Feb-22	6	New Week, New Ideas	17	
17	1	20-Dec-21	04-Feb-22	6	New Week, New Ideas	18	
18	1	20-Dec-21	04-Feb-22	7	A Never Give Up Spirit	19	Rai

Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number		
19	1	20-Dec-21	04-Feb-22	7	A Never Give Up Spirit	20	
20	1	20-Dec-21	04-Feb-22	7	A Never Give Up Spirit	21	
21	1	20-Dec-21	04-Feb-22	7	A Never Give Up Spirit	22	
22	1	20-Dec-21	04-Feb-22	8	Shark Ko Impress Karne Wale Ideas	23	
23	1	20-Dec-21	04-Feb-22	8	Shark Ko Impress Karne Wale Ideas	24	Viva
24	1	20-Dec-21	04-Feb-22	8	Shark Ko Impress Karne Wale Ideas	25	
25	1	20-Dec-21	04-Feb-22	9	Defining Innovations	26	
26	1	20-Dec-21	04-Feb-22	9	Defining Innovations	27	
27	1	20-Dec-21	04-Feb-22	9	Defining Innovations	28	Ki
28	1	20-Dec-21	04-Feb-22	10	Passion About Entrepreneurship	29	
29	1	20-Dec-21	04-Feb-22	10	Passion About Entrepreneurship	30	
30	1	20-Dec-21	04-Feb-22	10	Passion About Entrepreneurship	31	
31	1	20-Dec-21	04-Feb-22	11	Investment Paane Ka Sapna	32	
32	1	20-Dec-21	04-Feb-22	11	Investment Paane Ka Sapna	33	ARRCOATS
33	1	20-Dec-21	04-Feb-22	11	Investment Paane Ka Sapna	34	
34	1	20-Dec-21	04-Feb-22	12	Ek Idea Aur Uske Do Sides	35	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
	35	1	20-Dec-21	04-Feb-22	12	Ek Idea Aur Uske Do Sides	36
	36	1	20-Dec-21	04-Feb-22	12	Ek Idea Aur Uske Do Sides	37
	37	1	20-Dec-21	04-Feb-22	13	Ideas By Young Entrepreneurs	38
	38	1	20-Dec-21	04-Feb-22	13	Ideas By Young Entrepreneurs	39
	39	1	20-Dec-21	04-Feb-22	13	Ideas By Young Entrepreneurs	40
	40	1	20-Dec-21	04-Feb-22	14	Naye Aur Nayab Pitchers	41
	41	1	20-Dec-21	04-Feb-22	14	Naye Aur Nayab Pitchers	42
	42	1	20-Dec-21	04-Feb-22	14	Naye Aur Nayab Pitchers	43
	43	1	20-Dec-21	04-Feb-22	15	It's Time To Change	44
	44	1	20-Dec-21	04-Feb-22	15	It's Time To Change	45
	45	1	20-Dec-21	04-Feb-22	15	It's Time To Change	46
	46	1	20-Dec-21	04-Feb-22	16	Winning The Sharks Trust	47
	47	1	20-Dec-21	04-Feb-22	16	Winning The Sharks Trust	48
	48	1	20-Dec-21	04-Feb-22	16	Winning The Sharks Trust	49
	49	1	20-Dec-21	04-Feb-22	16	Winning The Sharks Trust	50
	50	1	20-Dec-21	04-Feb-22	17	A Wave Of Startups	51
	51	1	20-Dec-21	04-Feb-22	17	A Wave Of Startups	52
	52	1	20-Dec-21	04-Feb-22	17	A Wave Of Startups	53
	53	1	20-Dec-21	04-Feb-22	17	A Wave Of Startups	54

Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
54	1 20-Dec-21	04-Feb-22	18	Investing In Profitable Businesses	55	Mc
55	1 20-Dec-21	04-Feb-22	18	Investing In Profitable Businesses	56	Ind
56	1 20-Dec-21	04-Feb-22	18	Investing In Profitable Businesses	57	
57	1 20-Dec-21	04-Feb-22	18	Investing In Profitable Businesses	58	
58	1 20-Dec-21	04-Feb-22	19	Forming An Idea And Bagging A Deal	59	
59	1 20-Dec-21	04-Feb-22	19	Forming An Idea And Bagging A Deal	60	
60	1 20-Dec-21	04-Feb-22	19	Forming An Idea And Bagging A Deal	61	
61	1 20-Dec-21	04-Feb-22	19	Forming An Idea And Bagging A Deal	62	
62	1 20-Dec-21	04-Feb-22	20	A Variety Of Ideas	63	
63	1 20-Dec-21	04-Feb-22	20	A Variety Of Ideas	64	
64	1 20-Dec-21	04-Feb-22	20	A Variety Of Ideas	65	
65	1 20-Dec-21	04-Feb-22	21	Game-changing Ideas	66	
66	1 20-Dec-21	04-Feb-22	21	Game-changing Ideas	67	
67	1 20-Dec-21	04-Feb-22	21	Game-changing Ideas	68	T
68	1 20-Dec-21	04-Feb-22	22	Turning Ideas Into Businesses	69	
69	1 20-Dec-21	04-Feb-22	22	Turning Ideas Into Businesses	70	Pc
70	1 20-Dec-21	04-Feb-22	22	Turning Ideas Into Businesses	71	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
	71	1	20-Dec-21	04-Feb-22	22	Turning Ideas Into Businesses	72
	72	1	20-Dec-21	04-Feb-22	23	Investing In Innovation	73
	73	1	20-Dec-21	04-Feb-22	23	Investing In Innovation	74
	74	1	20-Dec-21	04-Feb-22	23	Investing In Innovation	75
	75	1	20-Dec-21	04-Feb-22	23	Investing In Innovation	76
	76	1	20-Dec-21	04-Feb-22	24	A Decade Of Indian Entrepreneurship	77
	77	1	20-Dec-21	04-Feb-22	24	A Decade Of Indian Entrepreneurship	78
	78	1	20-Dec-21	04-Feb-22	24	A Decade Of Indian Entrepreneurship	79
	79	1	20-Dec-21	04-Feb-22	25	An Ocean Of Opportunities	80
	80	1	20-Dec-21	04-Feb-22	25	An Ocean Of Opportunities	81 Sunfc
	81	1	20-Dec-21	04-Feb-22	25	An Ocean Of Opportunities	82
	82	1	20-Dec-21	04-Feb-22	26	Revolutionary Ideas	83
	83	1	20-Dec-21	04-Feb-22	26	Revolutionary Ideas	84 Jul
	84	1	20-Dec-21	04-Feb-22	26	Revolutionary Ideas	85
	85	1	20-Dec-21	04-Feb-22	27	Investing In The Future Of India	86
	86	1	20-Dec-21	04-Feb-22	27	Investing In The Future Of India	87 Watt
	87	1	20-Dec-21	04-Feb-22	27	Investing In The Future Of India	88 Alist
	88	1	20-Dec-21	04-Feb-22	27	Investing In The Future Of India	89 Insur
	89	1	20-Dec-21	04-Feb-22	28	Meeting The New India Minds	90
	90	1	20-Dec-21	04-Feb-22	28	Meeting The New India Minds	91

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number		
	91	1	20-Dec-21	04-Feb-22	28	Meeting The New India Minds	92	Gold
	92	1	20-Dec-21	04-Feb-22	29	Businesses Of Tomorrow	93	
	93	1	20-Dec-21	04-Feb-22	29	Businesses Of Tomorrow	94	
	94	1	20-Dec-21	04-Feb-22	29	Businesses Of Tomorrow	95	
	95	1	20-Dec-21	04-Feb-22	30	Sharks Ki Expertise	96	
	96	1	20-Dec-21	04-Feb-22	30	Sharks Ki Expertise	97	
	97	1	20-Dec-21	04-Feb-22	30	Sharks Ki Expertise	98	S
	98	1	20-Dec-21	04-Feb-22	30	Sharks Ki Expertise	99	
	99	1	20-Dec-21	04-Feb-22	31	Entrepreneurship Ki Raah	100	
	100	1	20-Dec-21	04-Feb-22	31	Entrepreneurship Ki Raah	101	
	101	1	20-Dec-21	04-Feb-22	31	Entrepreneurship Ki Raah	102	
	102	1	20-Dec-21	04-Feb-22	31	Entrepreneurship Ki Raah	103	
	103	1	20-Dec-21	04-Feb-22	32	The Road To Success	104	
	104	1	20-Dec-21	04-Feb-22	32	The Road To Success	105	
	105	1	20-Dec-21	04-Feb-22	32	The Road To Success	106	
	106	1	20-Dec-21	04-Feb-22	32	The Road To Success	107	
	107	1	20-Dec-21	04-Feb-22	33	Life-Changing Ideas	108	Colour
	108	1	20-Dec-21	04-Feb-22	33	Life-Changing Ideas	109	
	109	1	20-Dec-21	04-Feb-22	33	Life-Changing Ideas	110	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
110	1	20-Dec-21	04-Feb-22	33	Life-Changing Ideas	111	
111	1	20-Dec-21	04-Feb-22	34	Scaling Ambitions	112	Nom
112	1	20-Dec-21	04-Feb-22	34	Scaling Ambitions	113	
113	1	20-Dec-21	04-Feb-22	34	Scaling Ambitions	114	
114	1	20-Dec-21	04-Feb-22	34	Scaling Ambitions	115	
115	1	20-Dec-21	04-Feb-22	35	The Final Destination	116	
116	1	20-Dec-21	04-Feb-22	35	The Final Destination	117	
117	1	20-Dec-21	04-Feb-22	35	The Final Destination	118	
118	1	20-Dec-21	04-Feb-22	36	Gateway To Shark Tank India	119	
119	1	20-Dec-21	04-Feb-22	36	Gateway To Shark Tank India	120	
120	1	20-Dec-21	04-Feb-22	36	Gateway To Shark Tank India	121	
121	1	20-Dec-21	04-Feb-22	36	Gateway To Shark Tank India	122	
152	2	02-Jan-23	10-Mar-23	1	Entrepreneurship Ki Leher Ek Baar Firse	153	
153	2	02-Jan-23	10-Mar-23	1	Entrepreneurship Ki Leher Ek Baar Firse	154	
154	2	02-Jan-23	10-Mar-23	1	Entrepreneurship Ki Leher Ek Baar Firse	155	
155	2	02-Jan-23	10-Mar-23	2	A Bigger Vision	156	Ve
156	2	02-Jan-23	10-Mar-23	2	A Bigger Vision	157	Watc
157	2	02-Jan-23	10-Mar-23	2	A Bigger Vision	158	
158	2	02-Jan-23	10-Mar-23	3	Thrilling and Thunderous Pitches	159	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
159	2	02-Jan-23	10-Mar-23	3	Thrilling and Thunderous Pitches	160	
160	2	02-Jan-23	10-Mar-23	3	Thrilling and Thunderous Pitches	161	
161	2	02-Jan-23	10-Mar-23	4	Ideas Meets Opportunity	162	Ge
162	2	02-Jan-23	10-Mar-23	4	Ideas Meets Opportunity	163	
163	2	02-Jan-23	10-Mar-23	4	Ideas Meets Opportunity	164	
164	2	02-Jan-23	10-Mar-23	5	Investing in the Future of India	165	
165	2	02-Jan-23	10-Mar-23	5	Investing in the Future of India	166	
166	2	02-Jan-23	10-Mar-23	5	Investing in the Future of India	167	C
167	2	02-Jan-23	10-Mar-23	6	Determined Entrepreneurs	168	
168	2	02-Jan-23	10-Mar-23	6	Determined Entrepreneurs	169	
169	2	02-Jan-23	10-Mar-23	6	Determined Entrepreneurs	170	Bhaskar's
170	2	02-Jan-23	10-Mar-23	7	Shaandar Businesses	171	Gunja
171	2	02-Jan-23	10-Mar-23	7	Shaandar Businesses	172	T
172	2	02-Jan-23	10-Mar-23	7	Shaandar Businesses	173	
173	2	02-Jan-23	10-Mar-23	8	Investment with Intent	174	Atyp
174	2	02-Jan-23	10-Mar-23	8	Investment with Intent	175	Hous
175	2	02-	10-	8	Investment with	176	Mac

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
		Jan-23	Mar-23	Intent			
176	2	02-Jan-23	10-Mar-23	9	Invest In Lifestyle	177	
177	2	02-Jan-23	10-Mar-23	9	Invest In Lifestyle	178	
178	2	02-Jan-23	10-Mar-23	10	Zillionaire Banne Ki Chah	179	
179	2	02-Jan-23	10-Mar-23	10	Zillionaire Banne Ki Chah	180	
180	2	02-Jan-23	10-Mar-23	10	Zillionaire Banne Ki Chah	181	
181	2	02-Jan-23	10-Mar-23	11	Investing The Right Way	182	ABCs
182	2	02-Jan-23	10-Mar-23	11	Investing The Right Way	183	
183	2	02-Jan-23	10-Mar-23	11	Investing The Right Way	184	
184	2	02-Jan-23	10-Mar-23	12	Pitchers Ki Undying Spirit	185	
185	2	02-Jan-23	10-Mar-23	12	Pitchers Ki Undying Spirit	186	
186	2	02-Jan-23	10-Mar-23	12	Pitchers Ki Undying Spirit	187	JaipurW
187	2	02-Jan-23	10-Mar-23	13	Up And Coming Business Ideas	188	
188	2	02-Jan-23	10-Mar-23	13	Up And Coming Business Ideas	189	
189	2	02-Jan-23	10-Mar-23	13	Up And Coming Business Ideas	190	
190	2	02-Jan-23	10-Mar-23	14	Investment Worthy Ideas	191	
191	2	02-Jan-23	10-Mar-23	14	Investment Worthy Ideas	192	
192	2	02-Jan-23	10-Mar-23	14	Investment Worthy Ideas	193	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number
	<b>193</b>	2 02-Jan-23	10-Mar-23	15	Changing The Face Of Indian Entrepreneurship	194
	<b>194</b>	2 02-Jan-23	10-Mar-23	15	Changing The Face Of Indian Entrepreneurship	195
	<b>195</b>	2 02-Jan-23	10-Mar-23	15	Changing The Face Of Indian Entrepreneurship	196
	<b>196</b>	2 02-Jan-23	10-Mar-23	16	Pitchers Ki Taiyyari	197
	<b>197</b>	2 02-Jan-23	10-Mar-23	16	Pitchers Ki Taiyyari	198
	<b>198</b>	2 02-Jan-23	10-Mar-23	16	Pitchers Ki Taiyyari	199
	<b>199</b>	2 02-Jan-23	10-Mar-23	17	Innovation Hardwork And Diligence	200
	<b>200</b>	2 02-Jan-23	10-Mar-23	17	Innovation Hardwork And Diligence	201
	<b>201</b>	2 02-Jan-23	10-Mar-23	17	Innovation Hardwork And Diligence	202
	<b>202</b>	2 02-Jan-23	10-Mar-23	18	Business Ideas With Potential	203
	<b>203</b>	2 02-Jan-23	10-Mar-23	18	Business Ideas With Potential	204
	<b>204</b>	2 02-Jan-23	10-Mar-23	18	Business Ideas With Potential	205
	<b>205</b>	2 02-Jan-23	10-Mar-23	18	Business Ideas With Potential	206
	<b>206</b>	2 02-Jan-23	10-Mar-23	19	Building Brands For India	207
	<b>207</b>	2 02-Jan-23	10-Mar-23	19	Building Brands For India	208
	<b>208</b>	2 02-Jan-23	10-Mar-23	19	Building Brands For India	209
	<b>209</b>	2 02-Jan-23	10-Mar-23	20	Nurturing Indian Entrepreneurs	210
	<b>210</b>	2 02-Jan-23	10-Mar-23	20	Nurturing Indian Entrepreneurs	211

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
<b>211</b>	2	02-Jan-23	10-Mar-23	20	Nurturing Indian Entrepreneurs	212	
<b>212</b>	2	02-Jan-23	10-Mar-23	21	Adhbhut Aur Anokhe Entrepreneurs	213	Ch
<b>213</b>	2	02-Jan-23	10-Mar-23	21	Adhbhut Aur Anokhe Entrepreneurs	214	
<b>214</b>	2	02-Jan-23	10-Mar-23	21	Adhbhut Aur Anokhe Entrepreneurs	215	
<b>215</b>	2	02-Jan-23	10-Mar-23	21	Adhbhut Aur Anokhe Entrepreneurs	216	
<b>216</b>	2	02-Jan-23	10-Mar-23	22	Making Big Businesses	217	
<b>217</b>	2	02-Jan-23	10-Mar-23	22	Making Big Businesses	218	
<b>218</b>	2	02-Jan-23	10-Mar-23	22	Making Big Businesses	219	
<b>219</b>	2	02-Jan-23	10-Mar-23	23	Changing The World	220	
<b>220</b>	2	02-Jan-23	10-Mar-23	23	Changing The World	221	Swa
<b>221</b>	2	02-Jan-23	10-Mar-23	23	Changing The World	222	
<b>222</b>	2	02-Jan-23	10-Mar-23	23	Changing The World	223	
<b>223</b>	2	02-Jan-23	10-Mar-23	24	India Ke Incredible Entrepreneurs	224	
<b>224</b>	2	02-Jan-23	10-Mar-23	24	India Ke Incredible Entrepreneurs	225	
<b>225</b>	2	02-Jan-23	10-Mar-23	24	India Ke Incredible Entrepreneurs	226	
<b>226</b>	2	02-Jan-23	10-Mar-23	25	Badhta India	227	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number		
	227	2	02-Jan-23	10-Mar-23	25	Badhta India	228	S
	228	2	02-Jan-23	10-Mar-23	25	Badhta India	229	
	229	2	02-Jan-23	10-Mar-23	26	Bharat Badal Raha Hai	230	
	230	2	02-Jan-23	10-Mar-23	26	Bharat Badal Raha Hai	231	
	231	2	02-Jan-23	10-Mar-23	26	Bharat Badal Raha Hai	232	
	232	2	02-Jan-23	10-Mar-23	27	Nayi Soch Naye Vichaar	233	T
	233	2	02-Jan-23	10-Mar-23	27	Nayi Soch Naye Vichaar	234	
	234	2	02-Jan-23	10-Mar-23	27	Nayi Soch Naye Vichaar	235	
	235	2	02-Jan-23	10-Mar-23	27	Nayi Soch Naye Vichaar	236	
	236	2	02-Jan-23	10-Mar-23	28	Game Changers	237	
	237	2	02-Jan-23	10-Mar-23	28	Game Changers	238	
	238	2	02-Jan-23	10-Mar-23	28	Game Changers	239	
	239	2	02-Jan-23	10-Mar-23	29	Pulse Of The Country	240	
	240	2	02-Jan-23	10-Mar-23	29	Pulse Of The Country	241	
	241	2	02-Jan-23	10-Mar-23	29	Pulse Of The Country	242	
	242	2	02-Jan-23	10-Mar-23	30	Changing India	243	
	243	2	02-Jan-23	10-Mar-23	30	Changing India	244	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	Th
244	2	02-Jan-23	10-Mar-23	30	Changing India	245	
245	2	02-Jan-23	10-Mar-23	31	Innovations And Investments	246	
246	2	02-Jan-23	10-Mar-23	31	Innovations And Investments	247	
247	2	02-Jan-23	10-Mar-23	31	Innovations And Investments	248	
248	2	02-Jan-23	10-Mar-23	32	Pitch Perfect	249	
249	2	02-Jan-23	10-Mar-23	32	Pitch Perfect	250	
250	2	02-Jan-23	10-Mar-23	32	Pitch Perfect	251	
251	2	02-Jan-23	10-Mar-23	32	Pitch Perfect	252	
252	2	02-Jan-23	10-Mar-23	33	Growing With India	253	
253	2	02-Jan-23	10-Mar-23	33	Growing With India	254	Th
254	2	02-Jan-23	10-Mar-23	33	Growing With India	255	
255	2	02-Jan-23	10-Mar-23	34	Growing Ideas Into Successful Businesses	256	
256	2	02-Jan-23	10-Mar-23	34	Growing Ideas Into Successful Businesses	257	MidNig
257	2	02-Jan-23	10-Mar-23	34	Growing Ideas Into Successful Businesses	258	
258	2	02-Jan-23	10-Mar-23	35	Business Ideas Ka Pitara	259	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
	259	2	02-Jan-23	10-Mar-23	35	Business Ideas Ka Pitara	260
	260	2	02-Jan-23	10-Mar-23	35	Business Ideas Ka Pitara	261
	261	2	02-Jan-23	10-Mar-23	35	Business Ideas Ka Pitara	262
	262	2	02-Jan-23	10-Mar-23	36	Anokhe Pitchers Ke Anokhe Ideas	263
	263	2	02-Jan-23	10-Mar-23	36	Anokhe Pitchers Ke Anokhe Ideas	264
	264	2	02-Jan-23	10-Mar-23	36	Anokhe Pitchers Ke Anokhe Ideas	265
	265	2	02-Jan-23	10-Mar-23	37	Bharat Ka Kal	266
	266	2	02-Jan-23	10-Mar-23	37	Bharat Ka Kal	267
	267	2	02-Jan-23	10-Mar-23	37	Bharat Ka Kal	268
	268	2	02-Jan-23	10-Mar-23	37	Bharat Ka Kal	269
	269	2	02-Jan-23	10-Mar-23	38	Innovation And Imagination	270
	270	2	02-Jan-23	10-Mar-23	38	Innovation And Imagination	271
	271	2	02-Jan-23	10-Mar-23	38	Innovation And Imagination	272
	272	2	02-Jan-23	10-Mar-23	38	Innovation And Imagination	273
	273	2	02-Jan-23	10-Mar-23	39	Revolutionary Ideas And Successful Businesses	274
	274	2	02-Jan-23	10-Mar-23	39	Revolutionary Ideas And	275

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
					Successful Businesses		
275	2	02-Jan-23	10-Mar-23	39	Revolutionary Ideas And Successful Businesses	276	C
276	2	02-Jan-23	10-Mar-23	39	Revolutionary Ideas And Successful Businesses	277	
277	2	02-Jan-23	10-Mar-23	40	Creating Valuable Businesses	278	
278	2	02-Jan-23	10-Mar-23	40	Creating Valuable Businesses	279	T
279	2	02-Jan-23	10-Mar-23	40	Creating Valuable Businesses	280	
280	2	02-Jan-23	10-Mar-23	41	Out Of The Box Business Ideas	281	
281	2	02-Jan-23	10-Mar-23	41	Out Of The Box Business Ideas	282	
282	2	02-Jan-23	10-Mar-23	41	Out Of The Box Business Ideas	283	
283	2	02-Jan-23	10-Mar-23	41	Out Of The Box Business Ideas	284	Wha
284	2	02-Jan-23	10-Mar-23	42	Building Businesses From Scratch	285	
285	2	02-Jan-23	10-Mar-23	42	Building Businesses From Scratch	286	
286	2	02-Jan-23	10-Mar-23	42	Building Businesses From Scratch	287	
287	2	02-Jan-23	10-Mar-23	42	Building Businesses From Scratch	288	
288	2	02-Jan-23	10-Mar-23	43	Creating Value Through Ideas	289	
289	2	02-Jan-23	10-Mar-23	43	Creating Value Through Ideas	290	
290	2	02-Jan-23	10-Mar-23	43	Creating Value Through Ideas	291	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
291	2	02-Jan-23	10-Mar-23	43	Creating Value Through Ideas	292	
292	2	02-Jan-23	10-Mar-23	44	Entrepreneurship Ka Junoon	293	
293	2	02-Jan-23	10-Mar-23	44	Entrepreneurship Ka Junoon	294	
294	2	02-Jan-23	10-Mar-23	44	Entrepreneurship Ka Junoon	295	
295	2	02-Jan-23	10-Mar-23	44	Entrepreneurship Ka Junoon	296	
296	2	02-Jan-23	10-Mar-23	45	True Meaning Of Entrepreneurship	297	
297	2	02-Jan-23	10-Mar-23	45	True Meaning Of Entrepreneurship	298	
298	2	02-Jan-23	10-Mar-23	45	True Meaning Of Entrepreneurship	299	
299	2	02-Jan-23	10-Mar-23	46	Different Colours Of Entrepreneurship	300	
300	2	02-Jan-23	10-Mar-23	46	Different Colours Of Entrepreneurship	301	Th
301	2	02-Jan-23	10-Mar-23	46	Different Colours Of Entrepreneurship	302	
302	2	02-Jan-23	10-Mar-23	46	Different Colours Of Entrepreneurship	303	The
303	2	02-Jan-23	10-Mar-23	47	Tunnel Se Tank Tak Ka Safar	304	
304	2	02-Jan-23	10-Mar-23	47	Tunnel Se Tank Tak Ka Safar	305	
305	2	02-Jan-23	10-Mar-23	47	Tunnel Se Tank Tak Ka Safar	306	Th Cha

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
	306	2	02-Jan-23	10-Mar-23	48	Pitchers, Investments And Businesses	307
	307	2	02-Jan-23	10-Mar-23	48	Pitchers, Investments And Businesses	308
	308	2	02-Jan-23	10-Mar-23	48	Pitchers, Investments And Businesses	309
	309	2	02-Jan-23	10-Mar-23	48	Pitchers, Investments And Businesses	310
	310	2	02-Jan-23	10-Mar-23	49	Businesses Adding Value To Society	311
	311	2	02-Jan-23	10-Mar-23	49	Businesses Adding Value To Society	312
	312	2	02-Jan-23	10-Mar-23	49	Businesses Adding Value To Society	313
	313	2	02-Jan-23	10-Mar-23	49	Businesses Adding Value To Society	314
	314	2	02-Jan-23	10-Mar-23	50	Season Finale With The Sharks	315
	315	2	02-Jan-23	10-Mar-23	50	Season Finale With The Sharks	316
	316	2	02-Jan-23	10-Mar-23	51	Gateway To Shark Tank India	317
	317	2	02-Jan-23	10-Mar-23	51	Gateway To Shark Tank India	318
	318	2	02-Jan-23	10-Mar-23	51	Gateway To Shark Tank India	319
	319	2	02-Jan-23	10-Mar-23	51	Gateway To Shark Tank India	320

## Total number of episodes in each season

there is episode number is 0 means unseen pitch so we exclude unseen pitches in order to find out the total number of episodes of each season :

```
In [76]: episodes.groupby(["Season Number"])["Episode Number"].nunique().to
```

Episode Number	
Season Number	
1	36
2	51

## Total number of episode of both season 1 & 2

```
In [77]: np.sum(episodes.groupby(["Season Number"])["Episode Number"].nunique())
```

```
Out[77]: 87
```

```
In [78]: x["no_of_episodes"] = episodes.groupby(["Season Number"])["Episode N
```

```
In [79]: x
```

	start_aired_date	end_aired_date	no_of_episodes
season1	20-Dec-21	04-Feb-22	36
season2	02-Jan-23	10-Mar-23	51

## Find the total numer of enterpreneuers who presented their ideas in shark tank india

```
In [80]: df[["Season Number", "Episode Number", "Pitch Number"]]
```

Out[80]:

	Season Number	Episode Number	Pitch Number
<b>0</b>	1	1	1
<b>1</b>	1	1	2
<b>2</b>	1	1	3
<b>3</b>	1	2	4
<b>4</b>	1	2	5
<b>5</b>	1	2	6
<b>6</b>	1	3	7
<b>7</b>	1	3	8
<b>8</b>	1	3	9
<b>9</b>	1	4	10
<b>10</b>	1	4	11
<b>11</b>	1	4	12
<b>12</b>	1	5	13
<b>13</b>	1	5	14
<b>14</b>	1	5	15
<b>15</b>	1	6	16
<b>16</b>	1	6	17
<b>17</b>	1	6	18
<b>18</b>	1	7	19
<b>19</b>	1	7	20
<b>20</b>	1	7	21
<b>21</b>	1	7	22
<b>22</b>	1	8	23
<b>23</b>	1	8	24
<b>24</b>	1	8	25
<b>25</b>	1	9	26
<b>26</b>	1	9	27
<b>27</b>	1	9	28
<b>28</b>	1	10	29
<b>29</b>	1	10	30
<b>30</b>	1	10	31
<b>31</b>	1	11	32
<b>32</b>	1	11	33
<b>33</b>	1	11	34
<b>34</b>	1	12	35
<b>35</b>	1	12	36

<b>Season Number</b>	<b>Episode Number</b>	<b>Pitch Number</b>
<b>36</b>	1	12
<b>37</b>	1	13
<b>38</b>	1	13
<b>39</b>	1	13
<b>40</b>	1	14
<b>41</b>	1	14
<b>42</b>	1	14
<b>43</b>	1	15
<b>44</b>	1	15
<b>45</b>	1	15
<b>46</b>	1	16
<b>47</b>	1	16
<b>48</b>	1	16
<b>49</b>	1	16
<b>50</b>	1	17
<b>51</b>	1	17
<b>52</b>	1	17
<b>53</b>	1	17
<b>54</b>	1	18
<b>55</b>	1	18
<b>56</b>	1	18
<b>57</b>	1	18
<b>58</b>	1	19
<b>59</b>	1	19
<b>60</b>	1	19
<b>61</b>	1	19
<b>62</b>	1	20
<b>63</b>	1	20
<b>64</b>	1	20
<b>65</b>	1	21
<b>66</b>	1	21
<b>67</b>	1	21
<b>68</b>	1	22
<b>69</b>	1	22
<b>70</b>	1	22
<b>71</b>	1	22

<b>Season Number</b>	<b>Episode Number</b>	<b>Pitch Number</b>
<b>72</b>	1	23
<b>73</b>	1	23
<b>74</b>	1	23
<b>75</b>	1	23
<b>76</b>	1	24
<b>77</b>	1	24
<b>78</b>	1	24
<b>79</b>	1	25
<b>80</b>	1	25
<b>81</b>	1	25
<b>82</b>	1	26
<b>83</b>	1	26
<b>84</b>	1	26
<b>85</b>	1	27
<b>86</b>	1	27
<b>87</b>	1	27
<b>88</b>	1	27
<b>89</b>	1	28
<b>90</b>	1	28
<b>91</b>	1	28
<b>92</b>	1	29
<b>93</b>	1	29
<b>94</b>	1	29
<b>95</b>	1	30
<b>96</b>	1	30
<b>97</b>	1	30
<b>98</b>	1	30
<b>99</b>	1	31
<b>100</b>	1	31
<b>101</b>	1	31
<b>102</b>	1	31
<b>103</b>	1	32
<b>104</b>	1	32
<b>105</b>	1	32
<b>106</b>	1	32
<b>107</b>	1	33

<b>Season Number</b>	<b>Episode Number</b>	<b>Pitch Number</b>
<b>108</b>	1	33
<b>109</b>	1	33
<b>110</b>	1	33
<b>111</b>	1	34
<b>112</b>	1	34
<b>113</b>	1	34
<b>114</b>	1	34
<b>115</b>	1	35
<b>116</b>	1	35
<b>117</b>	1	35
<b>118</b>	1	36
<b>119</b>	1	36
<b>120</b>	1	36
<b>121</b>	1	36
<b>122</b>	1	0
<b>123</b>	1	0
<b>124</b>	1	0
<b>125</b>	1	0
<b>126</b>	1	0
<b>127</b>	1	0
<b>128</b>	1	0
<b>129</b>	1	0
<b>130</b>	1	0
<b>131</b>	1	0
<b>132</b>	1	0
<b>133</b>	1	0
<b>134</b>	1	0
<b>135</b>	1	0
<b>136</b>	1	0
<b>137</b>	1	0
<b>138</b>	1	0
<b>139</b>	1	0
<b>140</b>	1	0
<b>141</b>	1	0
<b>142</b>	1	0
<b>143</b>	1	0

Season Number	Episode Number	Pitch Number
144	1	0
145	1	0
146	1	0
147	1	0
148	1	0
149	1	0
150	1	0
151	1	0
152	2	1
153	2	1
154	2	1
155	2	2
156	2	2
157	2	2
158	2	3
159	2	3
160	2	3
161	2	4
162	2	4
163	2	4
164	2	5
165	2	5
166	2	5
167	2	6
168	2	6
169	2	6
170	2	7
171	2	7
172	2	7
173	2	8
174	2	8
175	2	8
176	2	9
177	2	9
178	2	10
179	2	10

<b>Season Number</b>	<b>Episode Number</b>	<b>Pitch Number</b>
<b>180</b>	2	10
<b>181</b>	2	11
<b>182</b>	2	11
<b>183</b>	2	11
<b>184</b>	2	12
<b>185</b>	2	12
<b>186</b>	2	12
<b>187</b>	2	13
<b>188</b>	2	13
<b>189</b>	2	13
<b>190</b>	2	14
<b>191</b>	2	14
<b>192</b>	2	14
<b>193</b>	2	15
<b>194</b>	2	15
<b>195</b>	2	15
<b>196</b>	2	16
<b>197</b>	2	16
<b>198</b>	2	16
<b>199</b>	2	17
<b>200</b>	2	17
<b>201</b>	2	17
<b>202</b>	2	18
<b>203</b>	2	18
<b>204</b>	2	18
<b>205</b>	2	18
<b>206</b>	2	19
<b>207</b>	2	19
<b>208</b>	2	19
<b>209</b>	2	20
<b>210</b>	2	20
<b>211</b>	2	20
<b>212</b>	2	21
<b>213</b>	2	21
<b>214</b>	2	21
<b>215</b>	2	21

<b>Season Number</b>	<b>Episode Number</b>	<b>Pitch Number</b>
<b>216</b>	2	22
<b>217</b>	2	22
<b>218</b>	2	22
<b>219</b>	2	23
<b>220</b>	2	23
<b>221</b>	2	23
<b>222</b>	2	23
<b>223</b>	2	24
<b>224</b>	2	24
<b>225</b>	2	24
<b>226</b>	2	25
<b>227</b>	2	25
<b>228</b>	2	25
<b>229</b>	2	26
<b>230</b>	2	26
<b>231</b>	2	26
<b>232</b>	2	27
<b>233</b>	2	27
<b>234</b>	2	27
<b>235</b>	2	27
<b>236</b>	2	28
<b>237</b>	2	28
<b>238</b>	2	28
<b>239</b>	2	29
<b>240</b>	2	29
<b>241</b>	2	29
<b>242</b>	2	30
<b>243</b>	2	30
<b>244</b>	2	30
<b>245</b>	2	31
<b>246</b>	2	31
<b>247</b>	2	31
<b>248</b>	2	32
<b>249</b>	2	32
<b>250</b>	2	32
<b>251</b>	2	32

<b>Season Number</b>	<b>Episode Number</b>	<b>Pitch Number</b>
252	2	33
253	2	33
254	2	33
255	2	34
256	2	34
257	2	34
258	2	35
259	2	35
260	2	35
261	2	35
262	2	36
263	2	36
264	2	36
265	2	37
266	2	37
267	2	37
268	2	37
269	2	38
270	2	38
271	2	38
272	2	38
273	2	39
274	2	39
275	2	39
276	2	39
277	2	40
278	2	40
279	2	40
280	2	41
281	2	41
282	2	41
283	2	41
284	2	42
285	2	42
286	2	42
287	2	42

Season Number	Episode Number	Pitch Number
288	2	43
289	2	43
290	2	43
291	2	43
292	2	44
293	2	44
294	2	44
295	2	44
296	2	45
297	2	45
298	2	45
299	2	46
300	2	46
301	2	46
302	2	46
303	2	47
304	2	47
305	2	47
306	2	48
307	2	48
308	2	48
309	2	48
310	2	49
311	2	49
312	2	49
313	2	49
314	2	50
315	2	50
316	2	51
317	2	51
318	2	51
319	2	51
		320

In [81]: df["Pitch Number"].nunique()

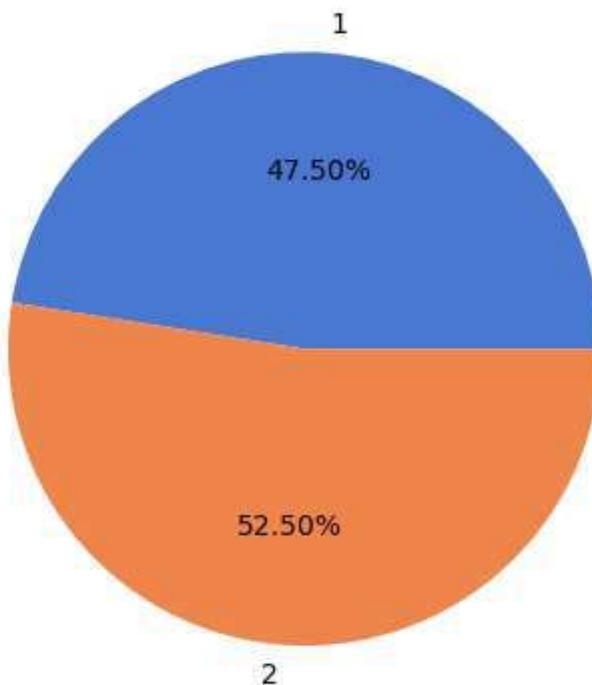
Out[81]: 320

## Out of 320, How many entrepreneurs participated in each seasons?

```
In [82]: df.groupby(["Season Number"])["Pitch Number"].count()
```

```
Out[82]: Season Number
1    152
2    168
Name: Pitch Number, dtype: int64
```

```
In [83]: plt.pie(df.groupby(["Season Number"])["Pitch Number"].count().valu
```



### Insight:

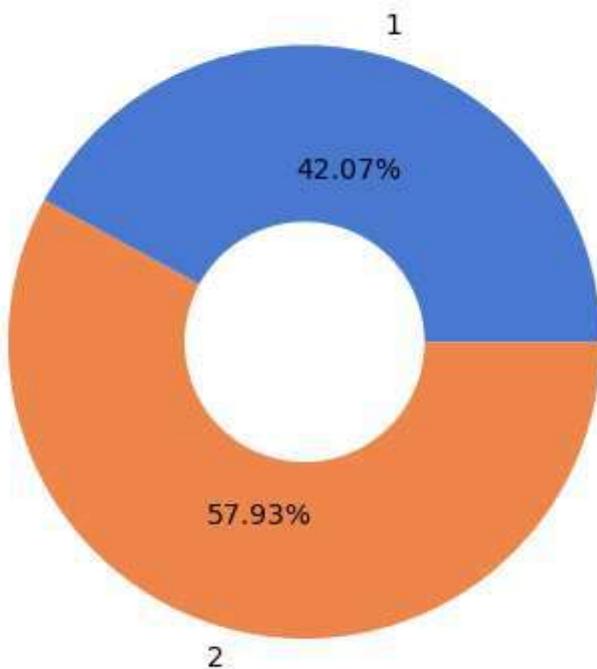
- season 1: 52.5% entrepreneurs participated while in season 2 while in season 1 47% of entrepreneurs participated
- no of presenters in season 2 were higher than season 1

## How many's brands participated in each season excluding non telecasted pitch

```
In [84]: episodes.groupby(["Season Number"])["Pitch Number"].count()
```

```
Out[84]: Season Number
1    122
2    168
Name: Pitch Number, dtype: int64
```

```
In [85]: plt.pie(episodes.groupby(["Season Number"])["Pitch Number"].count(),
           circle = plt.Circle( (0,0), 0.4, color='white')
           p=plt.gcf()
           p.gca().add_artist(circle);
```



## How many Brands participated in each episode of each season

```
In [86]: df.groupby(["Season Number","Episode Number"])["Pitch Number"].agg
```

Out[86]:

Season Number	Episode Number	count
1	0	30
	27	4
	31	4
	32	4
	33	4
	34	4
	36	4
2	18	4
	21	4
	23	4
	27	4
	32	4
	35	4
	37	4
	38	4
	39	4
	41	4
	42	4
	43	4
	44	4
	46	4
	48	4
	49	4
1	30	4
2	51	4
1	19	4
	16	4
	23	4
	22	4
	17	4
	7	4
	18	4
2	29	3
	33	3
1	13	3

**count**

Season Number	Episode Number	count
2	31	3
	30	3
1	25	3
2	28	3
1	12	3
	14	3
2	26	3
	25	3
	34	3
1	10	3
2	36	3
1	11	3
	15	3
	9	3
2	40	3
1	8	3
	6	3
	5	3
2	45	3
1	4	3
2	47	3
1	3	3
	2	3
2	24	3
	20	3
	22	3
1	26	3
	24	3
	28	3
	29	3
	21	3
	20	3
	35	3
2	1	3
	2	3

**count**

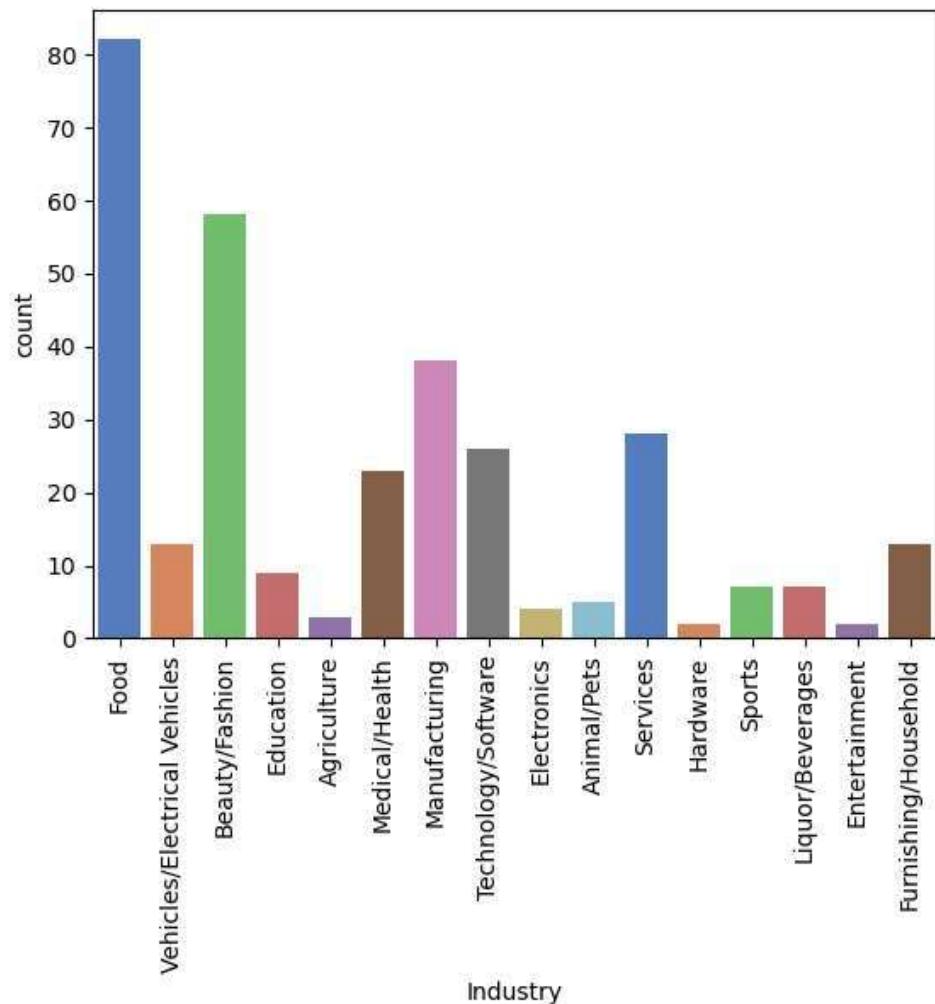
Season Number	Episode Number	count
	<b>3</b>	3
	<b>4</b>	3
	<b>5</b>	3
	<b>6</b>	3
	<b>7</b>	3
<b>1</b>	<b>1</b>	3
<b>2</b>	<b>10</b>	3
	<b>11</b>	3
	<b>12</b>	3
	<b>13</b>	3
	<b>14</b>	3
	<b>15</b>	3
	<b>16</b>	3
	<b>17</b>	3
	<b>19</b>	3
	<b>8</b>	3
	<b>9</b>	2
	<b>50</b>	2

## Insight:

- max no of brands participated per episode: 4 except unseen pitches
- Min. number of brands participated per episode : 2

## of which industry brands participated

```
In [87]: sns.countplot(x="Industry", data=df, palette="muted")
plt.xticks(rotation=90);
```

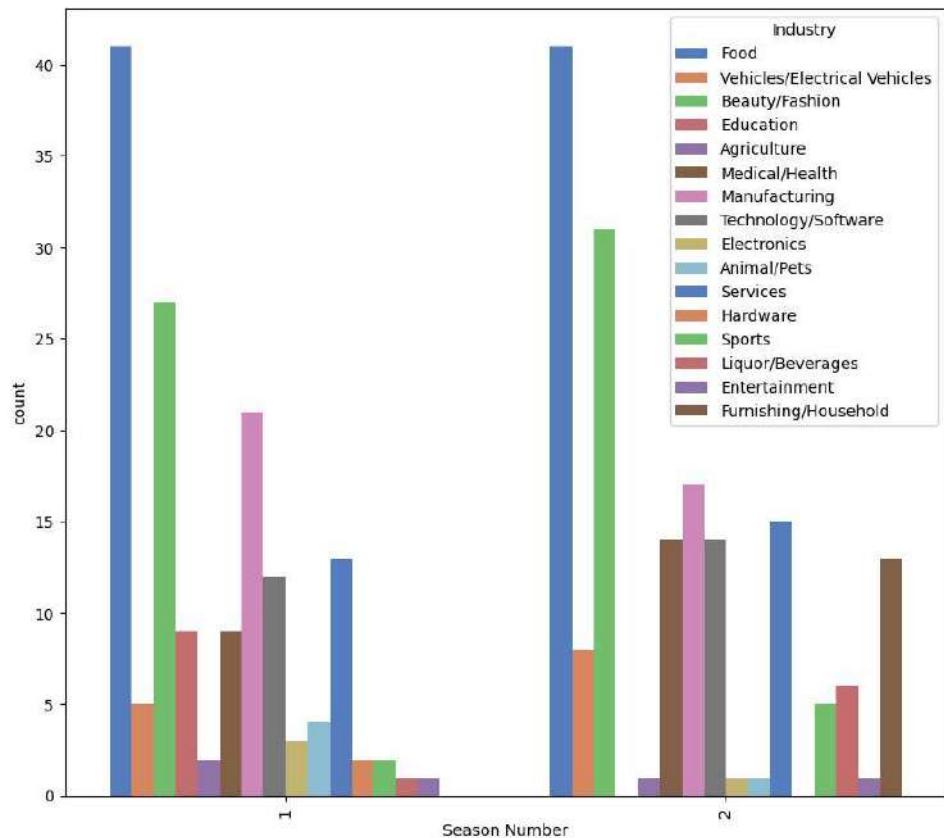


### Insight:

Entrepreneurs from food industry participated most while from hardware and entertainment sectors were less

**of which industry brands participated with respect of each season**

```
In [88]: plt.figure(figsize=(10,9))
sns.countplot(x="Season Number", data=df, hue="Industry", palette="magma")
plt.xticks(rotation=90);
```

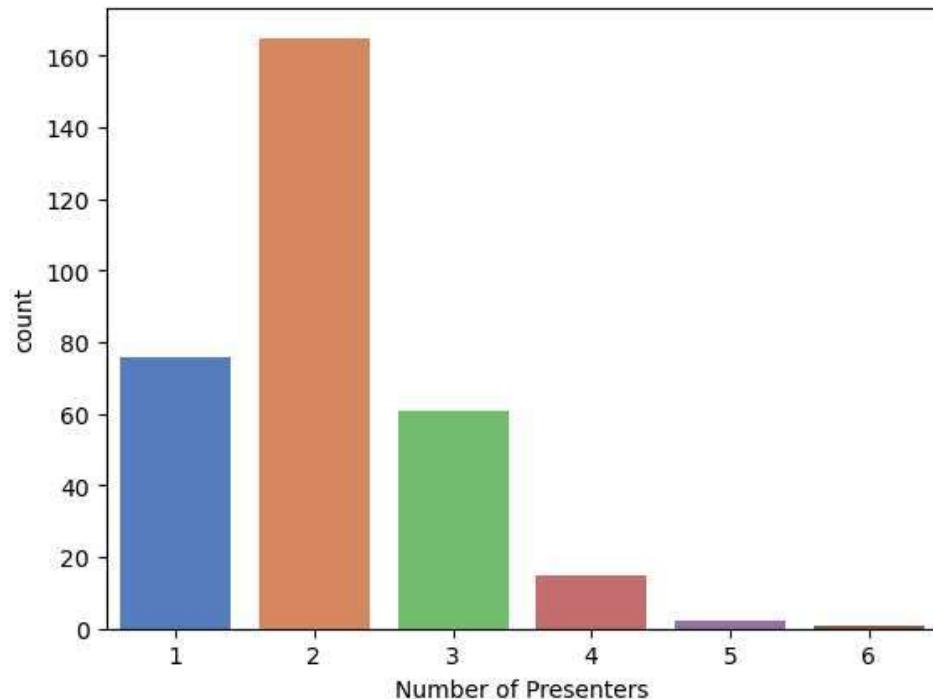


## Insight:

Entrepreneurs from food and beauty/fashion industry participated most in both of the season

## Which team size participated most

```
In [89]: sns.countplot(data=df,x="Number of Presenters",palette="muted");
```



### Insight:

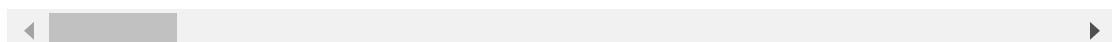
Team size of 2 participated most while 5 & 6 are in very less number.

## Detail of team size 5 and 6

```
In [90]: df[((df["Number of Presenters"]==6) | (df["Number of Presenters"]==5))]
```

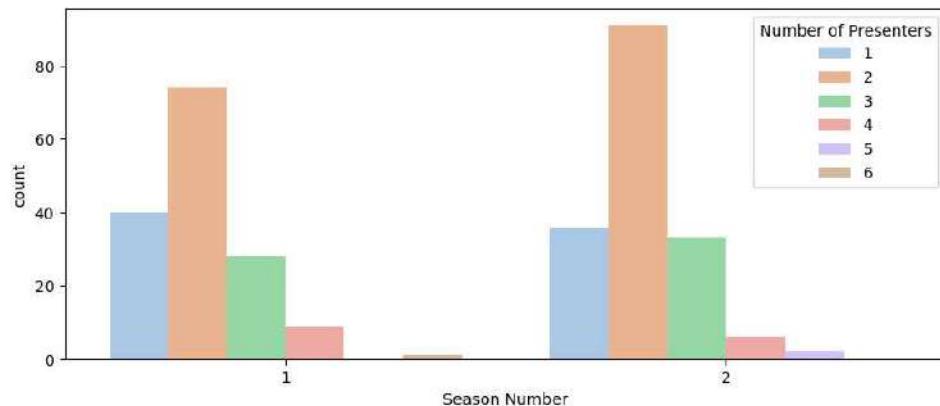
Out[90]:

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	Startup Name
87	1	20-Dec-21	04-Feb-22	27	Investing In The Future Of India	88	AlisteTechnologie
199	2	02-Jan-23	10-Mar-23	17	Innovation Hardwork And Diligence	200	AvimeeHerbal
303	2	02-Jan-23	10-Mar-23	47	Tunnel Se Tank Tak Ka Safar	304	Brevista



## Team Participation size in each seasons

```
In [91]: plt.figure(figsize=(10,4))
sns.countplot(x="Season Number", palette="pastel", hue="Number of Pr
```



## Insights

Team of 2 participated most in both season and only one team with 5 or 6 members participated in season 2 and season 1 respectively.

## How many % of couple

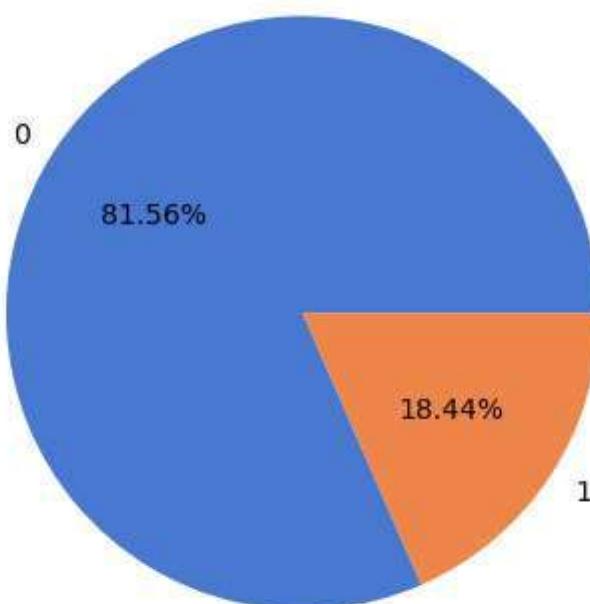
```
In [92]: df["Couple Presenters"].unique()
```

```
Out[92]: array([0, 1])
```

```
In [93]: df["Couple Presenters"].value_counts()
```

```
Out[93]: Couple Presenters
0    261
1     59
Name: count, dtype: int64
```

```
In [94]: plt.pie(df["Couple Presenters"].value_counts().values, labels=df["C
```



```
In [95]: df.groupby(["Season Number"])["Couple Presenters"].value_counts()
```

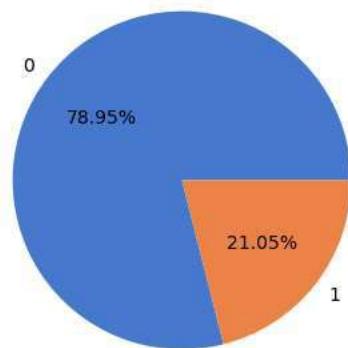
```
Out[95]: Season Number  Couple Presenters
          1              0                120
                           1                 32
          2              0                141
                           1                 27
Name: count, dtype: int64

In [96]: df[df["Season Number"]==1]["Couple Presenters"].value_counts()

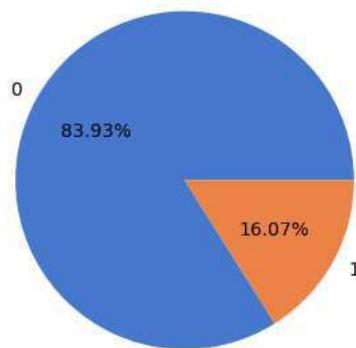
Out[96]: Couple Presenters
0    120
1     32
Name: count, dtype: int64

In [97]: plt.figure(figsize=(9,6))
plt.subplot(1,2,1)
plt.pie(df[df["Season Number"]==1]["Couple Presenters"].value_counts(), labels=df[df["Season Number"]==1]["Couple Presenters"].index, autopct='%.2f%%')
plt.title("Couple Presenters of Season 1")
plt.subplot(1,2,2)
plt.pie(df[df["Season Number"]==2]["Couple Presenters"].value_counts(), labels=df[df["Season Number"]==2]["Couple Presenters"].index, autopct='%.2f%%')
plt.title("Couple Presenters of Season 2");
```

Couple Presenters of Season 1



Couple Presenters of Season 2

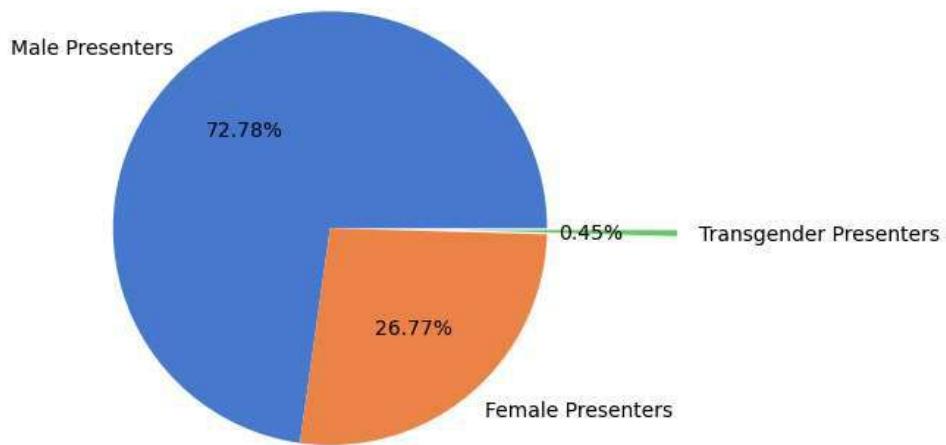


## Who participated most male,female or transgender

```
In [98]: l=["Male Presenters","Female Presenters","Transgender Presenters"]
l1=[]
for i in l:
    l1.append(df[i].sum())
l1

Out[98]: [484, 178, 3]

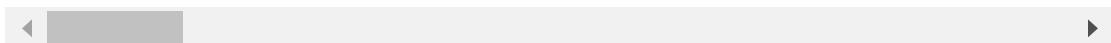
In [99]: plt.pie(l1,labels=l,autopct='%.2f%%',colors=sns.color_palette("muted"))
plt.title("Ratio of Male , Female and Transgender ",fontweight="bold")
```

**Ratio of Male , Female and Transgender****Details of the Transgender Presenters**

```
In [100]: df[df["Transgender Presenters"]==1]
```

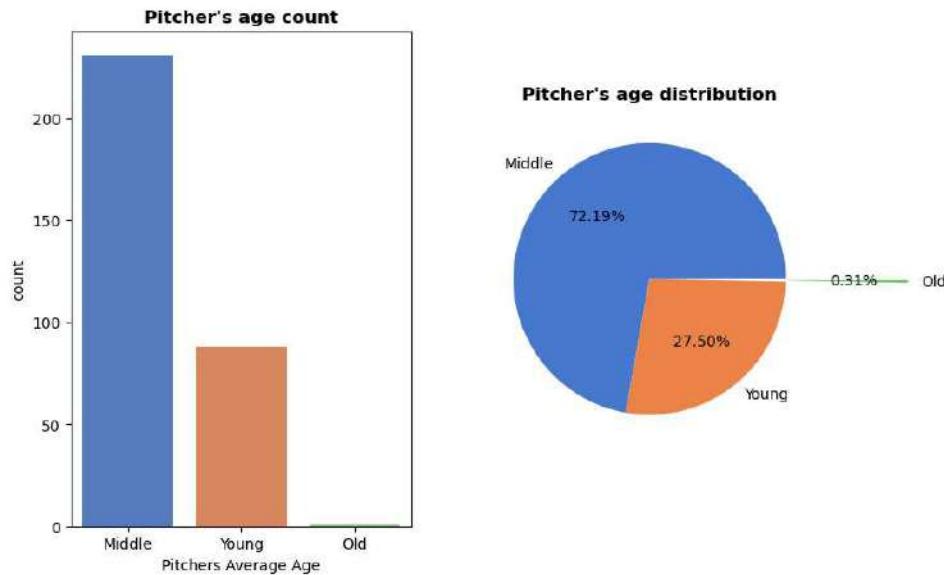
Out[100]:

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	Startup Name	Ind
123	1	20-Dec-21	04-Feb-22	0	Unseen	124	Kineer	
132	1	20-Dec-21	04-Feb-22	0	Unseen	133	Glii	Sel
215	2	02-Jan-23	10-Mar-23	21	Adhbhut Aur Anokhe Entrepreneurs	216	BeUnic	Sel



## of which age entreprenuer are partcipated most

```
In [101]: plt.figure(figsize=(9,6))
plt.subplot(1,2,1)
sns.countplot(x="Pitchers Average Age",data=df,palette="muted")
plt.title("Pitcher's age count",fontweight="bold")
plt.subplot(1,2,2)
plt.pie(df["Pitchers Average Age"].value_counts().values,labels=df
plt.title("Pitcher's age distribution",fontweight="bold");
```



## of which state picther participated most and least

```
In [102]: df["Pitchers State"].nunique()
```

```
Out[102]: 34
```

```
In [103]: df["Pitchers State"].unique()
```

```
Out[103]: array(['Delhi', 'Gujarat', 'Karnataka', 'Punjab', 'Maharashtra',
       'Delhi,Punjab', 'Bihar', 'Telangana', 'Haryana', 'Kerala',
       'West Bengal', 'Tamil Nadu', 'Rajasthan', 'Madhya Prades
       h',
       'Karnataka,West Bengal', 'Jammu & Kashmir', 'Uttar Prades
       h',
       'Uttarakhand', 'Goa', 'Delhi,Maharashtra',
       'Haryana,Madhya Pradesh', 'Himachal Pradesh', 'Jharkhand',
       'Karnataka,Telangana', 'Telangana,Maharashtra',
       'Kerala,Maharashtra', 'Haryana,West Bengal', 'Chhattisgar
       h',
       'Haryana,Maharashtra', 'Karnataka,Andhra Pradesh',
       'Jharkhand,Chhattisgarh', 'Uttarakhand,Uttar Pradesh',
       'Gujarat,Uttar Pradesh', 'Arunachal Pradesh'], dtype=objc
       t)
```

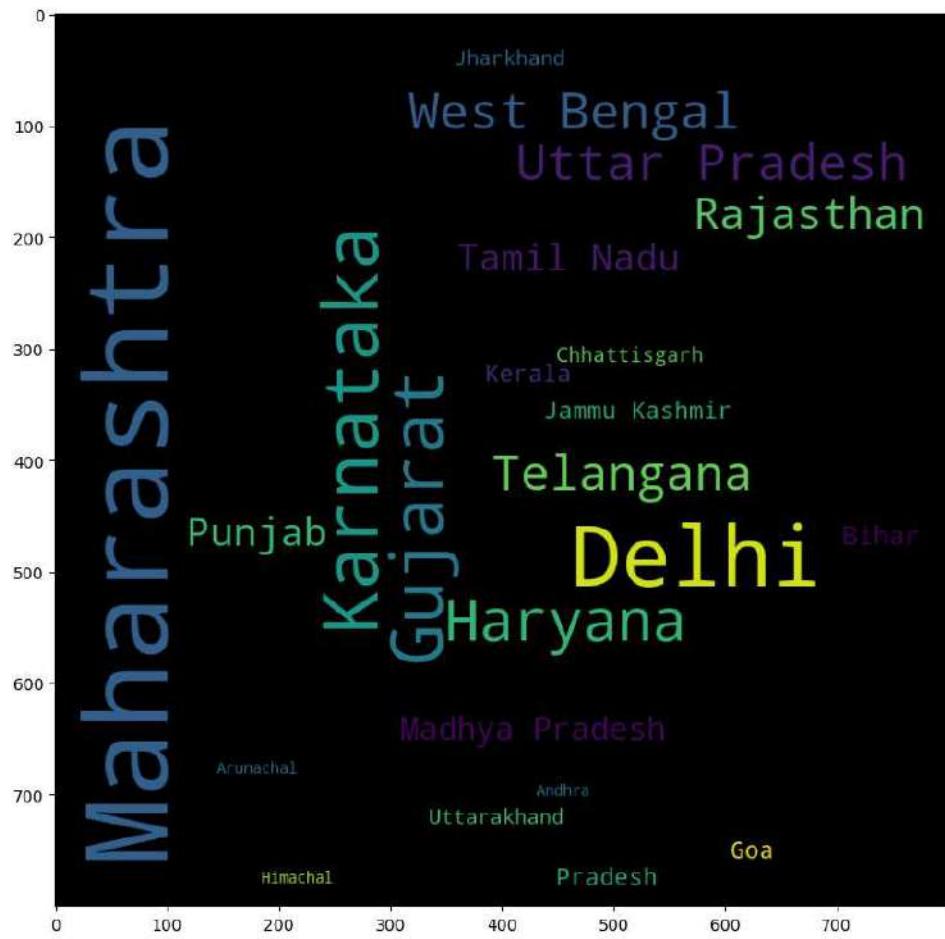
```
In [104]: states=df["Pitchers State"].values
state = ' '.join(states)
state
```

Out[104]:

'Delhi Gujarat Delhi Karnataka Punjab Maharashtra Delhi,Punjab Maharashtra Karnataka Delhi Bihar Gujarat Maharashtra Maharashtra Maharashtra Telangana Gujarat Telangana Haryana Gujarat Haryana Maharashtra Kerala Telangana Gujarat West Bengal Tamil Nadu Rajasthan Gujarat Maharashtra Maharashtra Delhi Delhi Maharashtra West Bengal Maharashtra Delhi Karnataka Madhya Pradesh Maharashtra Maharashtra Gujarat Delhi Haryana Maharashtra Telangana Maharashtra Delhi West Bengal Delhi Punjab Maharashtra West Bengal Maharashtra Maharashtra Karnataka Haryana Karnataka Kerala Delhi Maharashtra Karnataka,West Bengal Delhi Maharashtra Maharashtra Jammu & Kashmir Uttarakhand Haryana Maharashtra Maharashtra Haryana Jammu & Kashmir Maharashtra Telangana Delhi Maharashtra Maharashtra Rajastan Maharashtra Uttarakhand Gujarat Uttar Pradesh Gujarat West Bengal Gujarat Maharashtra Uttar Pradesh Uttar Pradesh Maharashtra Karnataka Maharashtra Goa Gujarat Maharashtra Maharashtra Karnataka Karnataka Karnataka Uttar Pradesh Bihar Karnataka Tamil Nadu Maharashtra Maharashtra Gujarat Maharashtra Maharashtra Delhi Delhi Maharashtra Maharashtra Maharashtra Gujarat Uttar Pradesh Maharashtra Maharashtra Delhi Gujarat Uttar Pradesh Delhi Maharashtra Maharashtra Uttar Pradesh Delhi Karnataka Rajastan Haryana Maharashtra Bihar Madhya Pradesh Uttar Pradesh Delhi Tamil Nadu Gujarat Maharashtra Haryana Maharashtra Delhi Telangana Gujarat Tamil Nadu Maharashtra Karnataka Maharashtra Delhi Maharashtra Punjap Haryana Gujarat Maharashtra Karnataka West Bengal Punjab Maharashtra Maharashtra Delhi Delhi Haryana,Madhya Pradesh Maharashtra Telangana Maharashtra Maharashtra Haryana Karnataka Delhi Maharashtra Himachal Pradesh Maharashtra West Bengal Gujarat Maharashtra Jharkhand Delhi Delhi Gujarat Delhi Rajasthan Punjab Karnataka Maharashtra Delhi Karnataka Maharashtra Rajasthan Gujarat Delhi Haryana Uttar Pradesh Delhi Maharashtra Maharashtra Jammu & Kashmir Maharashtra Karnataka Telangana Tamil Nadu Gujarat Delhi Rajasthan Delhi Tamil Nadu Maharashtra West Bengal Maharashtra Maharashtra Gujarat Karnataka Telangana Karnataka Delhi Karnataka Karnataka,Telangana Uttar Pradesh Delhi Maharashtra Gujarat Maharashtra Rajastan Maharashtra Rajastan Maharashtra Punjab Gujarat Tel angana,Maharashtra Karnataka Delhi Maharashtra Kerala,Maharashtra West Bengal Delhi Haryana,West Bengal Maharashtra Gujarat Rajastan Maharashtra Chhattisgarh Maharashtra Karnataka Gujarat Delhi Haryana Delhi Maharashtra Maharashtra Madhya Pradesh Delhi Gujarat Madhya Pradesh Haryana Haryana Karnataka Maharashtra Maharashtra Haryana,Maharashtra Haryana Haryana Delhi West Bengal Maharashtra Punjab Uttar Pradesh Madhya Pradesh Punjab Haryana Telangana Maharashtra Rajastan Goa Maharashtra Uttar Pradesh Karnataka Rajastan Karnataka West Bengal Maharashtra Haryana Delhi Gujarat Gujarat Tamil Nadu Maharashtra West Bengal Delhi Karnataka Karnataka Karnataka West Bengal Maharashtra Delhi Telangana Karnataka T elangana Maharashtra Maharashtra Karnataka,Andhra Pradesh Jharkhand,Chhattisgarh Maharashtra Maharashtra Goa Maharashtra Uttarakhand,Uttar Pradesh Karnataka Bihar Karnataka Gujarat,Uttar Pradesh Gujarat Karnataka Maharashtra Tamil Nadu Maharashtra Gujarat Maharashtra Gujarat Karnataka Maharashtra Arunachal Pradesh Delhi'

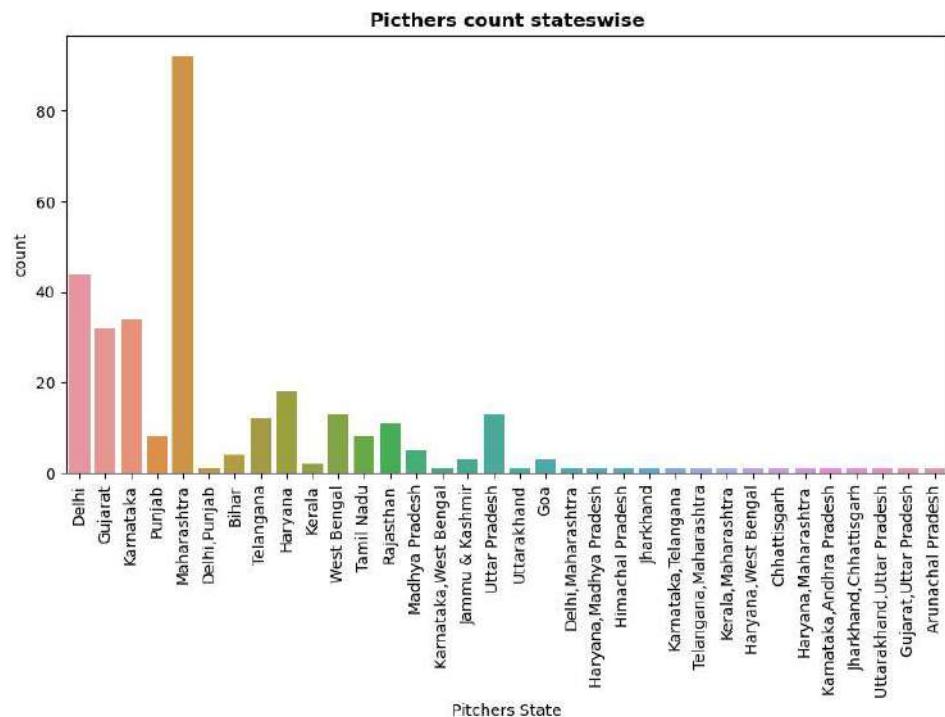
In [105...]

```
wordcloud = WordCloud(width=800, height=800, background_color='black')
plt.figure(figsize=(14,8), facecolor=None)
plt.imshow(wordcloud)
plt.tight_layout(pad=0)
plt.show()
```



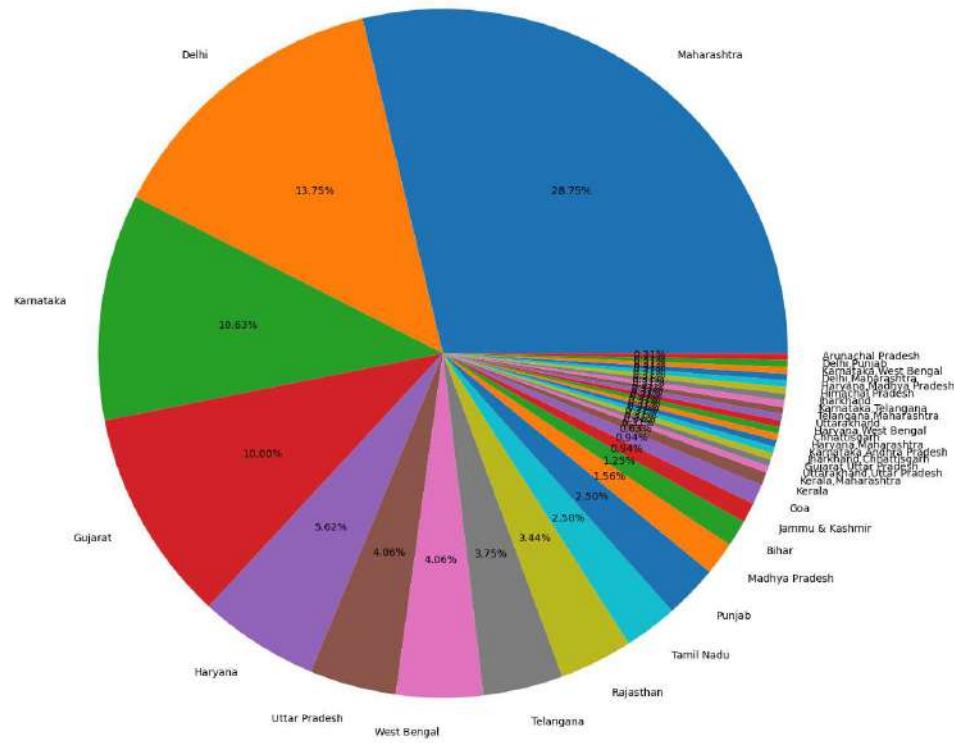
In [106...]

```
plt.figure(figsize=(10,5))
sns.countplot(x="Pitchers State", data=df)
plt.title("Pitchers count stateswise", fontweight="bold")
plt.xticks(rotation=90);
```



To see the distribution of each state use % in pie chart

```
In [107... plt.figure(figsize=(15,15))
plt.pie(x=df["Pitchers State"].value_counts().values,labels=df["Pi
```



**Because of too many categories as states so pie chart becomes messy so we do the feature engineering in such way that number of categories is reduced.**

```
In [108... df["Pitchers State"].unique()
```

```
Out[108]: array(['Delhi', 'Gujarat', 'Karnataka', 'Punjab', 'Maharashtra',
       'Delhi,Punjab', 'Bihar', 'Telangana', 'Haryana', 'Kerala',
       'West Bengal', 'Tamil Nadu', 'Rajasthan', 'Madhya Prades
       h',
       'Karnataka,West Bengal', 'Jammu & Kashmir', 'Uttar Prades
       h',
       'Uttarakhand', 'Goa', 'Delhi,Maharashtra',
       'Haryana,Madhya Pradesh', 'Himachal Pradesh', 'Jharkhand',
       'Karnataka,Telangana', 'Telangana,Maharashtra',
       'Kerala,Maharashtra', 'Haryana,West Bengal', 'Chhattisgar
       h',
       'Haryana,Maharashtra', 'Karnataka,Andhra Pradesh',
       'Jharkhand,Chhattisgarh', 'Uttarakhand,Uttar Pradesh',
       'Gujarat,Uttar Pradesh', 'Arunachal Pradesh'], dtype=object)
```

from above output we can see in some team each entrepreneurs came from different state like in Karnataka,West Bengal so we are making these states as hybrid state as follows.

```
In [109... df1=df.copy()
df1
```



Out[109]:

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
0	1	20-Dec-21	04-Feb-22	1	Badlegi Business Ki Tasveer	1	
1	1	20-Dec-21	04-Feb-22	1	Badlegi Business Ki Tasveer	2	
2	1	20-Dec-21	04-Feb-22	1	Badlegi Business Ki Tasveer	3	Heal
3	1	20-Dec-21	04-Feb-22	2	Insaan, Ideas Aur Sapne	4	
4	1	20-Dec-21	04-Feb-22	2	Insaan, Ideas Aur Sapne	5	I
5	1	20-Dec-21	04-Feb-22	2	Insaan, Ideas Aur Sapne	6	
6	1	20-Dec-21	04-Feb-22	3	Aam Aadmi Ke Business Ideas	7	
7	1	20-Dec-21	04-Feb-22	3	Aam Aadmi Ke Business Ideas	8	
8	1	20-Dec-21	04-Feb-22	3	Aam Aadmi Ke Business Ideas	9	
9	1	20-Dec-21	04-Feb-22	4	Entrepreneurship Ki Wave	10	
10	1	20-Dec-21	04-Feb-22	4	Entrepreneurship Ki Wave	11	
11	1	20-Dec-21	04-Feb-22	4	Entrepreneurship Ki Wave	12	
12	1	20-Dec-21	04-Feb-22	5	Hunt For Interesting Business	13	
13	1	20-Dec-21	04-Feb-22	5	Hunt For Interesting Business	14	
14	1	20-Dec-21	04-Feb-22	5	Hunt For Interesting Business	15	Shra
15	1	20-Dec-21	04-Feb-22	6	New Week, New Ideas	16	
16	1	20-Dec-21	04-Feb-22	6	New Week, New Ideas	17	
17	1	20-Dec-21	04-Feb-22	6	New Week, New Ideas	18	
18	1	20-Dec-21	04-Feb-22	7	A Never Give Up Spirit	19	Rai

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
	<b>19</b>	1	20-Dec-21	04-Feb-22	7	A Never Give Up Spirit	20
	<b>20</b>	1	20-Dec-21	04-Feb-22	7	A Never Give Up Spirit	21
	<b>21</b>	1	20-Dec-21	04-Feb-22	7	A Never Give Up Spirit	22
	<b>22</b>	1	20-Dec-21	04-Feb-22	8	Shark Ko Impress Karne Wale Ideas	23
	<b>23</b>	1	20-Dec-21	04-Feb-22	8	Shark Ko Impress Karne Wale Ideas	24
	<b>24</b>	1	20-Dec-21	04-Feb-22	8	Shark Ko Impress Karne Wale Ideas	25
	<b>25</b>	1	20-Dec-21	04-Feb-22	9	Defining Innovations	26
	<b>26</b>	1	20-Dec-21	04-Feb-22	9	Defining Innovations	27
	<b>27</b>	1	20-Dec-21	04-Feb-22	9	Defining Innovations	28
	<b>28</b>	1	20-Dec-21	04-Feb-22	10	Passion About Entrepreneurship	29
	<b>29</b>	1	20-Dec-21	04-Feb-22	10	Passion About Entrepreneurship	30
	<b>30</b>	1	20-Dec-21	04-Feb-22	10	Passion About Entrepreneurship	31
	<b>31</b>	1	20-Dec-21	04-Feb-22	11	Investment Paane Ka Sapna	32
	<b>32</b>	1	20-Dec-21	04-Feb-22	11	Investment Paane Ka Sapna	33
	<b>33</b>	1	20-Dec-21	04-Feb-22	11	Investment Paane Ka Sapna	34
	<b>34</b>	1	20-Dec-21	04-Feb-22	12	Ek Idea Aur Uske Do Sides	35
	<b>35</b>	1	20-Dec-21	04-Feb-22	12	Ek Idea Aur Uske Do Sides	36
	<b>36</b>	1	20-Dec-21	04-Feb-22	12	Ek Idea Aur Uske Do Sides	37

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
	37	1	20-Dec-21	04-Feb-22	13	Ideas By Young Entrepreneurs	38
	38	1	20-Dec-21	04-Feb-22	13	Ideas By Young Entrepreneurs	39
	39	1	20-Dec-21	04-Feb-22	13	Ideas By Young Entrepreneurs	40
	40	1	20-Dec-21	04-Feb-22	14	Naye Aur Nayab Pitchers	41
	41	1	20-Dec-21	04-Feb-22	14	Naye Aur Nayab Pitchers	42
	42	1	20-Dec-21	04-Feb-22	14	Naye Aur Nayab Pitchers	43
	43	1	20-Dec-21	04-Feb-22	15	It's Time To Change	44
	44	1	20-Dec-21	04-Feb-22	15	It's Time To Change	45
	45	1	20-Dec-21	04-Feb-22	15	It's Time To Change	46
	46	1	20-Dec-21	04-Feb-22	16	Winning The Sharks Trust	47
	47	1	20-Dec-21	04-Feb-22	16	Winning The Sharks Trust	48
	48	1	20-Dec-21	04-Feb-22	16	Winning The Sharks Trust	49
	49	1	20-Dec-21	04-Feb-22	16	Winning The Sharks Trust	50
	50	1	20-Dec-21	04-Feb-22	17	A Wave Of Startups	51
	51	1	20-Dec-21	04-Feb-22	17	A Wave Of Startups	52
	52	1	20-Dec-21	04-Feb-22	17	A Wave Of Startups	53
	53	1	20-Dec-21	04-Feb-22	17	A Wave Of Startups	54
	54	1	20-Dec-21	04-Feb-22	18	Investing In Profitable Businesses	55

Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
55	1 20-Dec-21	04-Feb-22	18	Investing In Profitable Businesses	56	Ind
56	1 20-Dec-21	04-Feb-22	18	Investing In Profitable Businesses	57	
57	1 20-Dec-21	04-Feb-22	18	Investing In Profitable Businesses	58	
58	1 20-Dec-21	04-Feb-22	19	Forming An Idea And Bagging A Deal	59	
59	1 20-Dec-21	04-Feb-22	19	Forming An Idea And Bagging A Deal	60	
60	1 20-Dec-21	04-Feb-22	19	Forming An Idea And Bagging A Deal	61	
61	1 20-Dec-21	04-Feb-22	19	Forming An Idea And Bagging A Deal	62	
62	1 20-Dec-21	04-Feb-22	20	A Variety Of Ideas	63	
63	1 20-Dec-21	04-Feb-22	20	A Variety Of Ideas	64	
64	1 20-Dec-21	04-Feb-22	20	A Variety Of Ideas	65	
65	1 20-Dec-21	04-Feb-22	21	Game-changing Ideas	66	
66	1 20-Dec-21	04-Feb-22	21	Game-changing Ideas	67	
67	1 20-Dec-21	04-Feb-22	21	Game-changing Ideas	68	T
68	1 20-Dec-21	04-Feb-22	22	Turning Ideas Into Businesses	69	
69	1 20-Dec-21	04-Feb-22	22	Turning Ideas Into Businesses	70	Pc
70	1 20-Dec-21	04-Feb-22	22	Turning Ideas Into Businesses	71	
71	1 20-Dec-21	04-Feb-22	22	Turning Ideas Into Businesses	72	
72	1 20-Dec-21	04-Feb-22	23	Investing In Innovation	73	
73	1 20-Dec-21	04-Feb-22	23	Investing In Innovation	74	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
	74	1	20-Dec-21	04-Feb-22	23	Investing In Innovation	75
	75	1	20-Dec-21	04-Feb-22	23	Investing In Innovation	76
	76	1	20-Dec-21	04-Feb-22	24	A Decade Of Indian Entrepreneurship	77
	77	1	20-Dec-21	04-Feb-22	24	A Decade Of Indian Entrepreneurship	78
	78	1	20-Dec-21	04-Feb-22	24	A Decade Of Indian Entrepreneurship	79
	79	1	20-Dec-21	04-Feb-22	25	An Ocean Of Opportunities	80
	80	1	20-Dec-21	04-Feb-22	25	An Ocean Of Opportunities	81 Sunfc
	81	1	20-Dec-21	04-Feb-22	25	An Ocean Of Opportunities	82
	82	1	20-Dec-21	04-Feb-22	26	Revolutionary Ideas	83
	83	1	20-Dec-21	04-Feb-22	26	Revolutionary Ideas	84 Jul
	84	1	20-Dec-21	04-Feb-22	26	Revolutionary Ideas	85
	85	1	20-Dec-21	04-Feb-22	27	Investing In The Future Of India	86
	86	1	20-Dec-21	04-Feb-22	27	Investing In The Future Of India	87 Watt
	87	1	20-Dec-21	04-Feb-22	27	Investing In The Future Of India	88 Alist
	88	1	20-Dec-21	04-Feb-22	27	Investing In The Future Of India	89 Insur
	89	1	20-Dec-21	04-Feb-22	28	Meeting The New India Minds	90
	90	1	20-Dec-21	04-Feb-22	28	Meeting The New India Minds	91
	91	1	20-Dec-21	04-Feb-22	28	Meeting The New India Minds	92 Gold
	92	1	20-Dec-21	04-Feb-22	29	Businesses Of Tomorrow	93
	93	1	20-Dec-21	04-Feb-22	29	Businesses Of Tomorrow	94

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
	94	1	20-Dec-21	04-Feb-22	29	Businesses Of Tomorrow	95
	95	1	20-Dec-21	04-Feb-22	30	Sharks Ki Expertise	96
	96	1	20-Dec-21	04-Feb-22	30	Sharks Ki Expertise	97
	97	1	20-Dec-21	04-Feb-22	30	Sharks Ki Expertise	98
	98	1	20-Dec-21	04-Feb-22	30	Sharks Ki Expertise	99
	99	1	20-Dec-21	04-Feb-22	31	Entrepreneurship Ki Raah	100
	100	1	20-Dec-21	04-Feb-22	31	Entrepreneurship Ki Raah	101
	101	1	20-Dec-21	04-Feb-22	31	Entrepreneurship Ki Raah	102
	102	1	20-Dec-21	04-Feb-22	31	Entrepreneurship Ki Raah	103
	103	1	20-Dec-21	04-Feb-22	32	The Road To Success	104
	104	1	20-Dec-21	04-Feb-22	32	The Road To Success	105
	105	1	20-Dec-21	04-Feb-22	32	The Road To Success	106
	106	1	20-Dec-21	04-Feb-22	32	The Road To Success	107
	107	1	20-Dec-21	04-Feb-22	33	Life-Changing Ideas	108
	108	1	20-Dec-21	04-Feb-22	33	Life-Changing Ideas	109
	109	1	20-Dec-21	04-Feb-22	33	Life-Changing Ideas	110
	110	1	20-Dec-21	04-Feb-22	33	Life-Changing Ideas	111
	111	1	20-Dec-21	04-Feb-22	34	Scaling Ambitions	112
	112	1	20-Dec-21	04-Feb-22	34	Scaling Ambitions	113

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
	<b>113</b>	1 20-Dec-21	04-Feb-22	34	Scaling Ambitions	114	
	<b>114</b>	1 20-Dec-21	04-Feb-22	34	Scaling Ambitions	115	
	<b>115</b>	1 20-Dec-21	04-Feb-22	35	The Final Destination	116	
	<b>116</b>	1 20-Dec-21	04-Feb-22	35	The Final Destination	117	
	<b>117</b>	1 20-Dec-21	04-Feb-22	35	The Final Destination	118	
	<b>118</b>	1 20-Dec-21	04-Feb-22	36	Gateway To Shark Tank India	119	
	<b>119</b>	1 20-Dec-21	04-Feb-22	36	Gateway To Shark Tank India	120	
	<b>120</b>	1 20-Dec-21	04-Feb-22	36	Gateway To Shark Tank India	121	
	<b>121</b>	1 20-Dec-21	04-Feb-22	36	Gateway To Shark Tank India	122	
	<b>122</b>	1 20-Dec-21	04-Feb-22	0	Unseen	123	
	<b>123</b>	1 20-Dec-21	04-Feb-22	0	Unseen	124	
	<b>124</b>	1 20-Dec-21	04-Feb-22	0	Unseen	125	
	<b>125</b>	1 20-Dec-21	04-Feb-22	0	Unseen	126	
	<b>126</b>	1 20-Dec-21	04-Feb-22	0	Unseen	127	
	<b>127</b>	1 20-Dec-21	04-Feb-22	0	Unseen	128	
	<b>128</b>	1 20-Dec-21	04-Feb-22	0	Unseen	129	
	<b>129</b>	1 20-Dec-21	04-Feb-22	0	Unseen	130	
	<b>130</b>	1 20-Dec-21	04-Feb-22	0	Unseen	131	
	<b>131</b>	1 20-Dec-21	04-Feb-22	0	Unseen	132	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
	132	1 20-Dec-21	04-Feb-22	0	Unseen	133	
	133	1 20-Dec-21	04-Feb-22	0	Unseen	134	
	134	1 20-Dec-21	04-Feb-22	0	Unseen	135	
	135	1 20-Dec-21	04-Feb-22	0	Unseen	136	
	136	1 20-Dec-21	04-Feb-22	0	Unseen	137	
	137	1 20-Dec-21	04-Feb-22	0	Unseen	138	
	138	1 20-Dec-21	04-Feb-22	0	Unseen	139	
	139	1 20-Dec-21	04-Feb-22	0	Unseen	140	
	140	1 20-Dec-21	04-Feb-22	0	Unseen	141	
	141	1 20-Dec-21	04-Feb-22	0	Unseen	142	
	142	1 20-Dec-21	04-Feb-22	0	Unseen	143	
	143	1 20-Dec-21	04-Feb-22	0	Unseen	144	MyW
	144	1 20-Dec-21	04-Feb-22	0	Unseen	145	
	145	1 20-Dec-21	04-Feb-22	0	Unseen	146	
	146	1 20-Dec-21	04-Feb-22	0	Unseen	147	
	147	1 20-Dec-21	04-Feb-22	0	Unseen	148	Ina
	148	1 20-Dec-21	04-Feb-22	0	Unseen	149	Meera
	149	1 20-Dec-21	04-Feb-22	0	Unseen	150	
	150	1 20-Dec-21	04-Feb-22	0	Unseen	151	
	151	1 20-Dec-21	04-Feb-22	0	Unseen	152	
	152	2 02-Jan-23	10-Mar-23	1	Entrepreneurship Ki Leher Ek Baar	153	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
Firse							
153	2	02-Jan-23	10-Mar-23	1	Entrepreneurship Ki Leher Ek Baar Firse	154	
154	2	02-Jan-23	10-Mar-23	1	Entrepreneurship Ki Leher Ek Baar Firse	155	
155	2	02-Jan-23	10-Mar-23	2	A Bigger Vision	156	V
156	2	02-Jan-23	10-Mar-23	2	A Bigger Vision	157	Watch
157	2	02-Jan-23	10-Mar-23	2	A Bigger Vision	158	
158	2	02-Jan-23	10-Mar-23	3	Thrilling and Thunderous Pitches	159	
159	2	02-Jan-23	10-Mar-23	3	Thrilling and Thunderous Pitches	160	
160	2	02-Jan-23	10-Mar-23	3	Thrilling and Thunderous Pitches	161	
161	2	02-Jan-23	10-Mar-23	4	Ideas Meets Opportunity	162	Ge
162	2	02-Jan-23	10-Mar-23	4	Ideas Meets Opportunity	163	
163	2	02-Jan-23	10-Mar-23	4	Ideas Meets Opportunity	164	
164	2	02-Jan-23	10-Mar-23	5	Investing in the Future of India	165	
165	2	02-Jan-23	10-Mar-23	5	Investing in the Future of India	166	
166	2	02-Jan-23	10-Mar-23	5	Investing in the Future of India	167	C
167	2	02-Jan-23	10-Mar-23	6	Determined Entrepreneurs	168	
168	2	02-Jan-23	10-Mar-23	6	Determined Entrepreneurs	169	
169	2	02-Jan-23	10-Mar-23	6	Determined Entrepreneurs	170	Bhaskar's

Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	Category
170	2 02-Jan-23	10-Mar-23	7	Shaandar Businesses	171	Gunjan
171	2 02-Jan-23	10-Mar-23	7	Shaandar Businesses	172	T
172	2 02-Jan-23	10-Mar-23	7	Shaandar Businesses	173	
173	2 02-Jan-23	10-Mar-23	8	Investment with Intent	174	Atypical
174	2 02-Jan-23	10-Mar-23	8	Investment with Intent	175	Hous
175	2 02-Jan-23	10-Mar-23	8	Investment with Intent	176	Mag
176	2 02-Jan-23	10-Mar-23	9	Invest In Lifestyle	177	
177	2 02-Jan-23	10-Mar-23	9	Invest In Lifestyle	178	
178	2 02-Jan-23	10-Mar-23	10	Zillionaire Banne Ki Chah	179	
179	2 02-Jan-23	10-Mar-23	10	Zillionaire Banne Ki Chah	180	
180	2 02-Jan-23	10-Mar-23	10	Zillionaire Banne Ki Chah	181	
181	2 02-Jan-23	10-Mar-23	11	Investing The Right Way	182	ABCs
182	2 02-Jan-23	10-Mar-23	11	Investing The Right Way	183	
183	2 02-Jan-23	10-Mar-23	11	Investing The Right Way	184	
184	2 02-Jan-23	10-Mar-23	12	Pitchers Ki Undying Spirit	185	
185	2 02-Jan-23	10-Mar-23	12	Pitchers Ki Undying Spirit	186	
186	2 02-Jan-23	10-Mar-23	12	Pitchers Ki Undying Spirit	187	JaipurW
187	2 02-Jan-23	10-Mar-23	13	Up And Coming Business Ideas	188	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number
	188	2 02-Jan-23	10-Mar-23	13	Up And Coming Business Ideas	189
	189	2 02-Jan-23	10-Mar-23	13	Up And Coming Business Ideas	190
	190	2 02-Jan-23	10-Mar-23	14	Investment Worthy Ideas	191
	191	2 02-Jan-23	10-Mar-23	14	Investment Worthy Ideas	192
	192	2 02-Jan-23	10-Mar-23	14	Investment Worthy Ideas	193
	193	2 02-Jan-23	10-Mar-23	15	Changing The Face Of Indian Entrepreneurship	194
	194	2 02-Jan-23	10-Mar-23	15	Changing The Face Of Indian Entrepreneurship	195
	195	2 02-Jan-23	10-Mar-23	15	Changing The Face Of Indian Entrepreneurship	196
	196	2 02-Jan-23	10-Mar-23	16	Pitchers Ki Taiyyari	197
	197	2 02-Jan-23	10-Mar-23	16	Pitchers Ki Taiyyari	198
	198	2 02-Jan-23	10-Mar-23	16	Pitchers Ki Taiyyari	199
	199	2 02-Jan-23	10-Mar-23	17	Innovation Hardwork And Diligence	200
	200	2 02-Jan-23	10-Mar-23	17	Innovation Hardwork And Diligence	201
	201	2 02-Jan-23	10-Mar-23	17	Innovation Hardwork And Diligence	202
	202	2 02-Jan-23	10-Mar-23	18	Business Ideas With Potential	203
	203	2 02-Jan-23	10-Mar-23	18	Business Ideas With Potential	204
	204	2 02-Jan-23	10-Mar-23	18	Business Ideas With Potential	205
	205	2 02-Jan-23	10-Mar-23	18	Business Ideas With Potential	206
	206	2 02-Jan-23	10-Mar-23	19	Building Brands For India	207

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
	<b>207</b>	2	02-Jan-23	10-Mar-23	19	Building Brands For India	208
	<b>208</b>	2	02-Jan-23	10-Mar-23	19	Building Brands For India	209
	<b>209</b>	2	02-Jan-23	10-Mar-23	20	Nurturing Indian Entrepreneurs	210
	<b>210</b>	2	02-Jan-23	10-Mar-23	20	Nurturing Indian Entrepreneurs	211
	<b>211</b>	2	02-Jan-23	10-Mar-23	20	Nurturing Indian Entrepreneurs	212
	<b>212</b>	2	02-Jan-23	10-Mar-23	21	Adhbhut Aur Anokhe Entrepreneurs	213
	<b>213</b>	2	02-Jan-23	10-Mar-23	21	Adhbhut Aur Anokhe Entrepreneurs	214
	<b>214</b>	2	02-Jan-23	10-Mar-23	21	Adhbhut Aur Anokhe Entrepreneurs	215
	<b>215</b>	2	02-Jan-23	10-Mar-23	21	Adhbhut Aur Anokhe Entrepreneurs	216
	<b>216</b>	2	02-Jan-23	10-Mar-23	22	Making Big Businesses	217
	<b>217</b>	2	02-Jan-23	10-Mar-23	22	Making Big Businesses	218
	<b>218</b>	2	02-Jan-23	10-Mar-23	22	Making Big Businesses	219
	<b>219</b>	2	02-Jan-23	10-Mar-23	23	Changing The World	220
	<b>220</b>	2	02-Jan-23	10-Mar-23	23	Changing The World	221
	<b>221</b>	2	02-Jan-23	10-Mar-23	23	Changing The World	222
	<b>222</b>	2	02-Jan-23	10-Mar-23	23	Changing The World	223
	<b>223</b>	2	02-Jan-23	10-Mar-23	24	India Ke Incredible Entrepreneurs	224

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
	224	2	02-Jan-23	10-Mar-23	24	India Ke Incredible Entrepreneurs	225
	225	2	02-Jan-23	10-Mar-23	24	India Ke Incredible Entrepreneurs	226
	226	2	02-Jan-23	10-Mar-23	25	Badhta India	227
	227	2	02-Jan-23	10-Mar-23	25	Badhta India	228
	228	2	02-Jan-23	10-Mar-23	25	Badhta India	229
	229	2	02-Jan-23	10-Mar-23	26	Bharat Badal Raha Hai	230
	230	2	02-Jan-23	10-Mar-23	26	Bharat Badal Raha Hai	231
	231	2	02-Jan-23	10-Mar-23	26	Bharat Badal Raha Hai	232
	232	2	02-Jan-23	10-Mar-23	27	Nayi Soch Naye Vichaar	233
	233	2	02-Jan-23	10-Mar-23	27	Nayi Soch Naye Vichaar	234
	234	2	02-Jan-23	10-Mar-23	27	Nayi Soch Naye Vichaar	235
	235	2	02-Jan-23	10-Mar-23	27	Nayi Soch Naye Vichaar	236
	236	2	02-Jan-23	10-Mar-23	28	Game Changers	237
	237	2	02-Jan-23	10-Mar-23	28	Game Changers	238
	238	2	02-Jan-23	10-Mar-23	28	Game Changers	239
	239	2	02-Jan-23	10-Mar-23	29	Pulse Of The Country	240
	240	2	02-Jan-23	10-Mar-23	29	Pulse Of The Country	241
	241	2	02-Jan-23	10-Mar-23	29	Pulse Of The Country	242

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
	242	2	02-Jan-23	10-Mar-23	30	Changing India	243
	243	2	02-Jan-23	10-Mar-23	30	Changing India	244
	244	2	02-Jan-23	10-Mar-23	30	Changing India	245
	245	2	02-Jan-23	10-Mar-23	31	Innovations And Investments	246
	246	2	02-Jan-23	10-Mar-23	31	Innovations And Investments	247
	247	2	02-Jan-23	10-Mar-23	31	Innovations And Investments	248
	248	2	02-Jan-23	10-Mar-23	32	Pitch Perfect	249
	249	2	02-Jan-23	10-Mar-23	32	Pitch Perfect	250
	250	2	02-Jan-23	10-Mar-23	32	Pitch Perfect	251
	251	2	02-Jan-23	10-Mar-23	32	Pitch Perfect	252
	252	2	02-Jan-23	10-Mar-23	33	Growing With India	253
	253	2	02-Jan-23	10-Mar-23	33	Growing With India	254
	254	2	02-Jan-23	10-Mar-23	33	Growing With India	255
	255	2	02-Jan-23	10-Mar-23	34	Growing Ideas Into Successful Businesses	256
	256	2	02-Jan-23	10-Mar-23	34	Growing Ideas Into Successful Businesses	257
							MidNight

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
257	2	02-Jan-23	10-Mar-23	34	Growing Ideas Into Successful Businesses	258	
258	2	02-Jan-23	10-Mar-23	35	Business Ideas Ka Pitara	259	
259	2	02-Jan-23	10-Mar-23	35	Business Ideas Ka Pitara	260	
260	2	02-Jan-23	10-Mar-23	35	Business Ideas Ka Pitara	261	
261	2	02-Jan-23	10-Mar-23	35	Business Ideas Ka Pitara	262	
262	2	02-Jan-23	10-Mar-23	36	Anokhe Pitchers Ke Anokhe Ideas	263	
263	2	02-Jan-23	10-Mar-23	36	Anokhe Pitchers Ke Anokhe Ideas	264	
264	2	02-Jan-23	10-Mar-23	36	Anokhe Pitchers Ke Anokhe Ideas	265	
265	2	02-Jan-23	10-Mar-23	37	Bharat Ka Kal	266	
266	2	02-Jan-23	10-Mar-23	37	Bharat Ka Kal	267	
267	2	02-Jan-23	10-Mar-23	37	Bharat Ka Kal	268	
268	2	02-Jan-23	10-Mar-23	37	Bharat Ka Kal	269	
269	2	02-Jan-23	10-Mar-23	38	Innovation And Imagination	270	
270	2	02-Jan-23	10-Mar-23	38	Innovation And Imagination	271	
271	2	02-Jan-23	10-Mar-23	38	Innovation And Imagination	272	
272	2	02-Jan-23	10-Mar-23	38	Innovation And Imagination	273	
273	2	02-Jan-23	10-Mar-23	39	Revolutionary Ideas And Successful Businesses	274	
274	2	02-Jan-23	10-Mar-23	39	Revolutionary Ideas And	275	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
					Successful Businesses		
275	2	02-Jan-23	10-Mar-23	39	Revolutionary Ideas And Successful Businesses	276	C
276	2	02-Jan-23	10-Mar-23	39	Revolutionary Ideas And Successful Businesses	277	
277	2	02-Jan-23	10-Mar-23	40	Creating Valuable Businesses	278	
278	2	02-Jan-23	10-Mar-23	40	Creating Valuable Businesses	279	T
279	2	02-Jan-23	10-Mar-23	40	Creating Valuable Businesses	280	
280	2	02-Jan-23	10-Mar-23	41	Out Of The Box Business Ideas	281	
281	2	02-Jan-23	10-Mar-23	41	Out Of The Box Business Ideas	282	
282	2	02-Jan-23	10-Mar-23	41	Out Of The Box Business Ideas	283	
283	2	02-Jan-23	10-Mar-23	41	Out Of The Box Business Ideas	284	Wha
284	2	02-Jan-23	10-Mar-23	42	Building Businesses From Scratch	285	
285	2	02-Jan-23	10-Mar-23	42	Building Businesses From Scratch	286	
286	2	02-Jan-23	10-Mar-23	42	Building Businesses From Scratch	287	
287	2	02-Jan-23	10-Mar-23	42	Building Businesses From Scratch	288	
288	2	02-Jan-23	10-Mar-23	43	Creating Value Through Ideas	289	
289	2	02-Jan-23	10-Mar-23	43	Creating Value Through Ideas	290	
290	2	02-Jan-23	10-Mar-23	43	Creating Value Through Ideas	291	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
291	2	02-Jan-23	10-Mar-23	43	Creating Value Through Ideas	292	
292	2	02-Jan-23	10-Mar-23	44	Entrepreneurship Ka Junoon	293	
293	2	02-Jan-23	10-Mar-23	44	Entrepreneurship Ka Junoon	294	
294	2	02-Jan-23	10-Mar-23	44	Entrepreneurship Ka Junoon	295	
295	2	02-Jan-23	10-Mar-23	44	Entrepreneurship Ka Junoon	296	
296	2	02-Jan-23	10-Mar-23	45	True Meaning Of Entrepreneurship	297	
297	2	02-Jan-23	10-Mar-23	45	True Meaning Of Entrepreneurship	298	
298	2	02-Jan-23	10-Mar-23	45	True Meaning Of Entrepreneurship	299	
299	2	02-Jan-23	10-Mar-23	46	Different Colours Of Entrepreneurship	300	
300	2	02-Jan-23	10-Mar-23	46	Different Colours Of Entrepreneurship	301	Th
301	2	02-Jan-23	10-Mar-23	46	Different Colours Of Entrepreneurship	302	
302	2	02-Jan-23	10-Mar-23	46	Different Colours Of Entrepreneurship	303	The
303	2	02-Jan-23	10-Mar-23	47	Tunnel Se Tank Tak Ka Safar	304	
304	2	02-Jan-23	10-Mar-23	47	Tunnel Se Tank Tak Ka Safar	305	
305	2	02-Jan-23	10-Mar-23	47	Tunnel Se Tank Tak Ka Safar	306	Th Cha
306	2	02-Jan-23	10-Mar-23	48	Pitchers, Investments And Businesses	307	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
307	2	02-Jan-23	10-Mar-23	48	Pitchers, Investments And Businesses	308	Sai
308	2	02-Jan-23	10-Mar-23	48	Pitchers, Investments And Businesses	309	Bot
309	2	02-Jan-23	10-Mar-23	48	Pitchers, Investments And Businesses	310	
310	2	02-Jan-23	10-Mar-23	49	Businesses Adding Value To Society	311	F
311	2	02-Jan-23	10-Mar-23	49	Businesses Adding Value To Society	312	
312	2	02-Jan-23	10-Mar-23	49	Businesses Adding Value To Society	313	
313	2	02-Jan-23	10-Mar-23	49	Businesses Adding Value To Society	314	
314	2	02-Jan-23	10-Mar-23	50	Season Finale With The Sharks	315	
315	2	02-Jan-23	10-Mar-23	50	Season Finale With The Sharks	316	
316	2	02-Jan-23	10-Mar-23	51	Gateway To Shark Tank India	317	
317	2	02-Jan-23	10-Mar-23	51	Gateway To Shark Tank India	318	
318	2	02-Jan-23	10-Mar-23	51	Gateway To Shark Tank India	319	
319	2	02-Jan-23	10-Mar-23	51	Gateway To Shark Tank India	320	

In [110...]

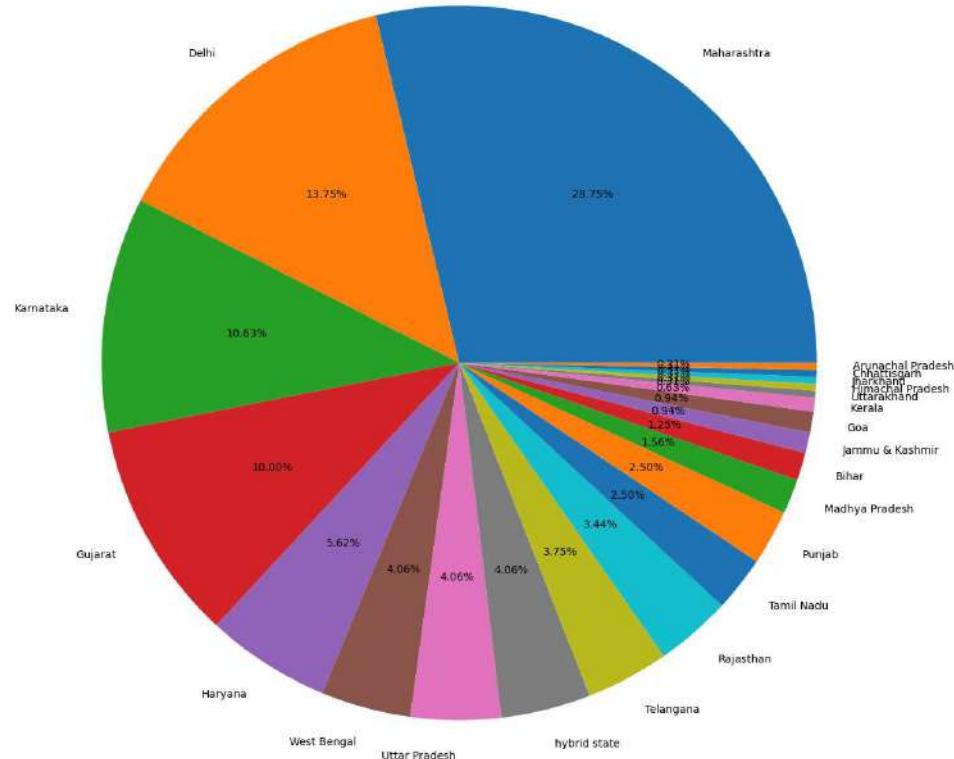
```
index=0
for i in df1["Pitchers State"]:
    if "," in i:
        df1.loc[index,"Pitchers State"]="hybrid state"
    else:
        df1.loc[index,"Pitchers State"]=i
    index=index+1
```

In [111...]

```
df1["Pitchers State"].unique()
```

```
Out[111]: array(['Delhi', 'Gujarat', 'Karnataka', 'Punjab', 'Maharashtra',
   'hybrid state', 'Bihar', 'Telangana', 'Haryana', 'Kerala',
   'West Bengal', 'Tamil Nadu', 'Rajasthan', 'Madhya Prades
h',
   'Jammu & Kashmir', 'Uttar Pradesh', 'Uttarakhand', 'Goa',
   'Himachal Pradesh', 'Jharkhand', 'Chhattisgarh',
   'Arunachal Pradesh'], dtype=object)
```

```
In [112... plt.figure(figsize=(15,15))
plt.pie(x=df1["Pitchers State"].value_counts().values,labels=df1["
```



still messyness is there in above output we further reduce the categories as below

make new others categories/state for those state whose corresponding count less than 5

```
In [113... l=["Madhya Pradesh","Bihar","Jammu & Kashmir","Goa","Kerala","Utt
a
index=0
for i in df1["Pitchers State"]:
    if i in l:
        df1.loc[index,"Pitchers State"]="others"
    index=index+1
```

```
In [114... df1["Pitchers State"].unique()
```

```
Out[114]: array(['Delhi', 'Gujarat', 'Karnataka', 'Punjab', 'Maharashtra',
   'hybrid state', 'others', 'Telangana', 'Haryana', 'West Be
ngal',
   'Tamil Nadu', 'Rajasthan', 'Uttar Pradesh'], dtype=object)
```

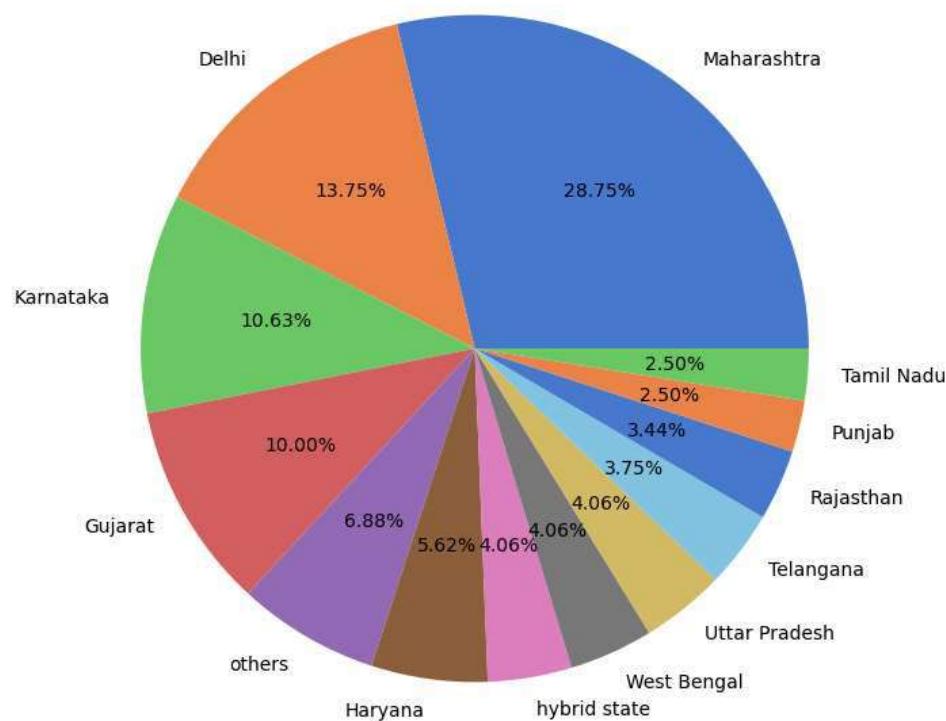
In [115]: `df1["Pitchers State"].value_counts()`

Out[115]: Pitchers State

Maharashtra	92
Delhi	44
Karnataka	34
Gujarat	32
others	22
Haryana	18
hybrid state	13
West Bengal	13
Uttar Pradesh	13
Telangana	12
Rajasthan	11
Punjab	8
Tamil Nadu	8

Name: count, dtype: int64

In [116]: `plt.figure(figsize=(10,8))  
plt.pie(x=df1["Pitchers State"].value_counts().values, labels=df1["`



## Top 5 participating states

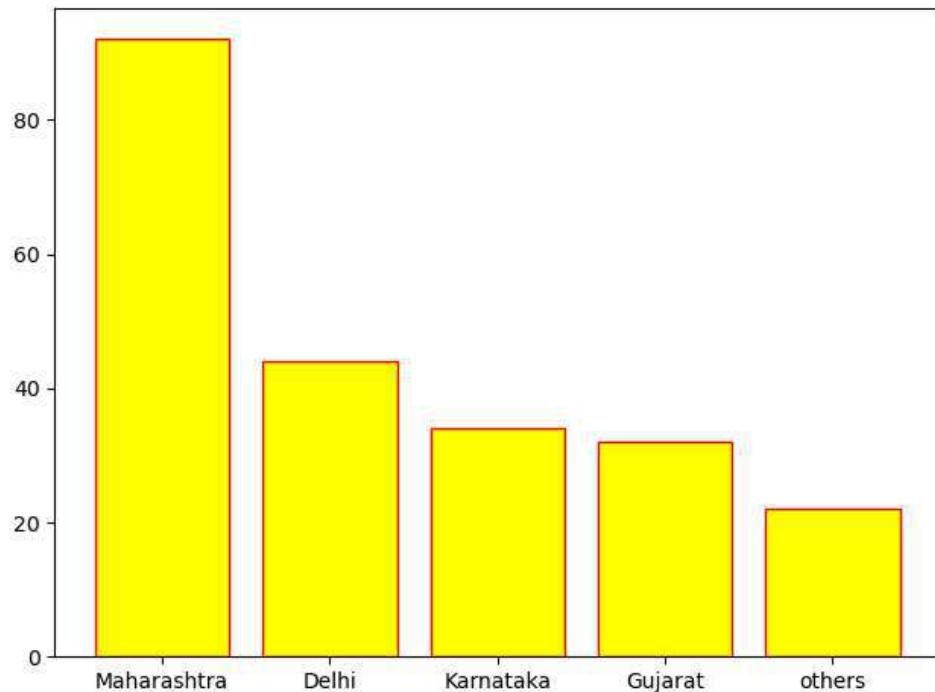
In [117]: `df1["Pitchers State"].value_counts().head(5)`

Out[117]: Pitchers State

Maharashtra	92
Delhi	44
Karnataka	34
Gujarat	32
others	22

Name: count, dtype: int64

In [118]: `plt.bar(df1["Pitchers State"].value_counts().head(5).index, df1["Pi`  
`plt.tight_layout()`



### Insight:

- Top 5 participating states:
  - Maharashtra
  - Delhi
  - Karnataka
  - Gujarat
  - others is treated as miscellaneous

## most and least active participating city with respect to above states

```
In [119...]: x=df1[((df1["Pitchers State"]=="Maharashtra")|(df1["Pitchers State"]...  
In [120...]: x
```

Out[120]:

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
0	1	20-Dec-21	04-Feb-22	1	Badlegi Business Ki Tasveer	1	
1	1	20-Dec-21	04-Feb-22	1	Badlegi Business Ki Tasveer	2	
2	1	20-Dec-21	04-Feb-22	1	Badlegi Business Ki Tasveer	3	Heal
3	1	20-Dec-21	04-Feb-22	2	Insaan, Ideas Aur Sapne	4	
5	1	20-Dec-21	04-Feb-22	2	Insaan, Ideas Aur Sapne	6	
7	1	20-Dec-21	04-Feb-22	3	Aam Aadmi Ke Business Ideas	8	
8	1	20-Dec-21	04-Feb-22	3	Aam Aadmi Ke Business Ideas	9	
9	1	20-Dec-21	04-Feb-22	4	Entrepreneurship Ki Wave	10	
11	1	20-Dec-21	04-Feb-22	4	Entrepreneurship Ki Wave	12	
12	1	20-Dec-21	04-Feb-22	5	Hunt For Interesting Business	13	
13	1	20-Dec-21	04-Feb-22	5	Hunt For Interesting Business	14	
14	1	20-Dec-21	04-Feb-22	5	Hunt For Interesting Business	15	Shra
16	1	20-Dec-21	04-Feb-22	6	New Week, New Ideas	17	
19	1	20-Dec-21	04-Feb-22	7	A Never Give Up Spirit	20	
21	1	20-Dec-21	04-Feb-22	7	A Never Give Up Spirit	22	
24	1	20-Dec-21	04-Feb-22	8	Shark Ko Impress Karne Wale Ideas	25	
28	1	20-Dec-21	04-Feb-22	10	Passion About Entrepreneurship	29	
29	1	20-Dec-21	04-Feb-22	10	Passion About Entrepreneurship	30	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
	<b>30</b>	1	20-Dec-21	04-Feb-22	10	Passion About Entrepreneurship	31
	<b>31</b>	1	20-Dec-21	04-Feb-22	11	Investment Paane Ka Sapna	32
	<b>32</b>	1	20-Dec-21	04-Feb-22	11	Investment Paane Ka Sapna	33 ARRCOATS
	<b>33</b>	1	20-Dec-21	04-Feb-22	11	Investment Paane Ka Sapna	34
	<b>35</b>	1	20-Dec-21	04-Feb-22	12	Ek Idea Aur Uske Do Sides	36
	<b>36</b>	1	20-Dec-21	04-Feb-22	12	Ek Idea Aur Uske Do Sides	37
	<b>37</b>	1	20-Dec-21	04-Feb-22	13	Ideas By Young Entrepreneurs	38
	<b>39</b>	1	20-Dec-21	04-Feb-22	13	Ideas By Young Entrepreneurs	40
	<b>40</b>	1	20-Dec-21	04-Feb-22	14	Naye Aur Nayab Pitchers	41 TI
	<b>41</b>	1	20-Dec-21	04-Feb-22	14	Naye Aur Nayab Pitchers	42 Mor
	<b>42</b>	1	20-Dec-21	04-Feb-22	14	Naye Aur Nayab Pitchers	43 Go
	<b>44</b>	1	20-Dec-21	04-Feb-22	15	It's Time To Change	45
	<b>46</b>	1	20-Dec-21	04-Feb-22	16	Winning The Sharks Trust	47
	<b>47</b>	1	20-Dec-21	04-Feb-22	16	Winning The Sharks Trust	48
	<b>49</b>	1	20-Dec-21	04-Feb-22	16	Winning The Sharks Trust	50
	<b>51</b>	1	20-Dec-21	04-Feb-22	17	A Wave Of Startups	52
	<b>53</b>	1	20-Dec-21	04-Feb-22	17	A Wave Of Startups	54
	<b>54</b>	1	20-Dec-21	04-Feb-22	18	Investing In Profitable Businesses	55 Mc

Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	Category	
55	1	20-Dec-21	04-Feb-22	18	Investing In Profitable Businesses	56	Ind
57	1	20-Dec-21	04-Feb-22	18	Investing In Profitable Businesses	58	
58	1	20-Dec-21	04-Feb-22	19	Forming An Idea And Bagging A Deal	59	
60	1	20-Dec-21	04-Feb-22	19	Forming An Idea And Bagging A Deal	61	
61	1	20-Dec-21	04-Feb-22	19	Forming An Idea And Bagging A Deal	62	
63	1	20-Dec-21	04-Feb-22	20	A Variety Of Ideas	64	
64	1	20-Dec-21	04-Feb-22	20	A Variety Of Ideas	65	
65	1	20-Dec-21	04-Feb-22	21	Game-changing Ideas	66	
69	1	20-Dec-21	04-Feb-22	22	Turning Ideas Into Businesses	70	Pc
70	1	20-Dec-21	04-Feb-22	22	Turning Ideas Into Businesses	71	
73	1	20-Dec-21	04-Feb-22	23	Investing In Innovation	74	
75	1	20-Dec-21	04-Feb-22	23	Investing In Innovation	76	
76	1	20-Dec-21	04-Feb-22	24	A Decade Of Indian Entrepreneurship	77	
77	1	20-Dec-21	04-Feb-22	24	A Decade Of Indian Entrepreneurship	78	
79	1	20-Dec-21	04-Feb-22	25	An Ocean Of Opportunities	80	
81	1	20-Dec-21	04-Feb-22	25	An Ocean Of Opportunities	82	
83	1	20-Dec-21	04-Feb-22	26	Revolutionary Ideas	84	Jul
85	1	20-Dec-21	04-Feb-22	27	Investing In The Future Of India	86	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number		
	86	1	20-Dec-21	04-Feb-22	27	Investing In The Future Of India	87	Watt
	89	1	20-Dec-21	04-Feb-22	28	Meeting The New India Minds	90	
	90	1	20-Dec-21	04-Feb-22	28	Meeting The New India Minds	91	
	91	1	20-Dec-21	04-Feb-22	28	Meeting The New India Minds	92	Gol
	93	1	20-Dec-21	04-Feb-22	29	Businesses Of Tomorrow	94	
	94	1	20-Dec-21	04-Feb-22	29	Businesses Of Tomorrow	95	
	95	1	20-Dec-21	04-Feb-22	30	Sharks Ki Expertise	96	
	96	1	20-Dec-21	04-Feb-22	30	Sharks Ki Expertise	97	
	97	1	20-Dec-21	04-Feb-22	30	Sharks Ki Expertise	98	S
	98	1	20-Dec-21	04-Feb-22	30	Sharks Ki Expertise	99	
	101	1	20-Dec-21	04-Feb-22	31	Entrepreneurship Ki Raah	102	
	103	1	20-Dec-21	04-Feb-22	32	The Road To Success	104	
	104	1	20-Dec-21	04-Feb-22	32	The Road To Success	105	
	105	1	20-Dec-21	04-Feb-22	32	The Road To Success	106	
	106	1	20-Dec-21	04-Feb-22	32	The Road To Success	107	
	107	1	20-Dec-21	04-Feb-22	33	Life-Changing Ideas	108	Colour
	108	1	20-Dec-21	04-Feb-22	33	Life-Changing Ideas	109	
	109	1	20-Dec-21	04-Feb-22	33	Life-Changing Ideas	110	
	110	1	20-Dec-21	04-Feb-22	33	Life-Changing Ideas	111	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
	112	1	20-Dec-21	04-Feb-22	34	Scaling Ambitions	113
	113	1	20-Dec-21	04-Feb-22	34	Scaling Ambitions	114
	114	1	20-Dec-21	04-Feb-22	34	Scaling Ambitions	115
	116	1	20-Dec-21	04-Feb-22	35	The Final Destination	117
	117	1	20-Dec-21	04-Feb-22	35	The Final Destination	118
	118	1	20-Dec-21	04-Feb-22	36	Gateway To Shark Tank India	119
	119	1	20-Dec-21	04-Feb-22	36	Gateway To Shark Tank India	120
	121	1	20-Dec-21	04-Feb-22	36	Gateway To Shark Tank India	122
	122	1	20-Dec-21	04-Feb-22	0	Unseen	123
	123	1	20-Dec-21	04-Feb-22	0	Unseen	124
	125	1	20-Dec-21	04-Feb-22	0	Unseen	126
	126	1	20-Dec-21	04-Feb-22	0	Unseen	127
	129	1	20-Dec-21	04-Feb-22	0	Unseen	130
	133	1	20-Dec-21	04-Feb-22	0	Unseen	134
	135	1	20-Dec-21	04-Feb-22	0	Unseen	136
	136	1	20-Dec-21	04-Feb-22	0	Unseen	137
	138	1	20-Dec-21	04-Feb-22	0	Unseen	139
	139	1	20-Dec-21	04-Feb-22	0	Unseen	140

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
141	1	20-Dec-21	04-Feb-22	0	Unseen	142	
143	1	20-Dec-21	04-Feb-22	0	Unseen	144	MyW
144	1	20-Dec-21	04-Feb-22	0	Unseen	145	
145	1	20-Dec-21	04-Feb-22	0	Unseen	146	
146	1	20-Dec-21	04-Feb-22	0	Unseen	147	
147	1	20-Dec-21	04-Feb-22	0	Unseen	148	Ina
150	1	20-Dec-21	04-Feb-22	0	Unseen	151	
151	1	20-Dec-21	04-Feb-22	0	Unseen	152	
152	2	02-Jan-23	10-Mar-23	1	Entrepreneurship Ki Leher Ek Baar Firse	153	
155	2	02-Jan-23	10-Mar-23	2	A Bigger Vision	156	Ve
156	2	02-Jan-23	10-Mar-23	2	A Bigger Vision	157	Watch
157	2	02-Jan-23	10-Mar-23	2	A Bigger Vision	158	
158	2	02-Jan-23	10-Mar-23	3	Thrilling and Thunderous Pitches	159	
160	2	02-Jan-23	10-Mar-23	3	Thrilling and Thunderous Pitches	161	
162	2	02-Jan-23	10-Mar-23	4	Ideas Meets Opportunity	163	
163	2	02-Jan-23	10-Mar-23	4	Ideas Meets Opportunity	164	
165	2	02-Jan-23	10-Mar-23	5	Investing in the Future of India	166	
166	2	02-Jan-23	10-Mar-23	5	Investing in the Future of India	167	C
167	2	02-Jan-23	10-Mar-23	6	Determined Entrepreneurs	168	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number		
	169	2	02-Jan-23	10-Mar-23	6	Determined Entrepreneurs	170	Bhaskar's
	171	2	02-Jan-23	10-Mar-23	7	Shaandar Businesses	172	T
	172	2	02-Jan-23	10-Mar-23	7	Shaandar Businesses	173	
	174	2	02-Jan-23	10-Mar-23	8	Investment with Intent	175	Hous
	175	2	02-Jan-23	10-Mar-23	8	Investment with Intent	176	Mac
	176	2	02-Jan-23	10-Mar-23	9	Invest In Lifestyle	177	
	177	2	02-Jan-23	10-Mar-23	9	Invest In Lifestyle	178	
	180	2	02-Jan-23	10-Mar-23	10	Zillionaire Banne Ki Chah	181	
	181	2	02-Jan-23	10-Mar-23	11	Investing The Right Way	182	ABCs
	182	2	02-Jan-23	10-Mar-23	11	Investing The Right Way	183	
	183	2	02-Jan-23	10-Mar-23	11	Investing The Right Way	184	
	184	2	02-Jan-23	10-Mar-23	12	Pitchers Ki Undying Spirit	185	
	187	2	02-Jan-23	10-Mar-23	13	Up And Coming Business Ideas	188	
	188	2	02-Jan-23	10-Mar-23	13	Up And Coming Business Ideas	189	
	191	2	02-Jan-23	10-Mar-23	14	Investment Worthy Ideas	192	
	192	2	02-Jan-23	10-Mar-23	14	Investment Worthy Ideas	193	
	193	2	02-Jan-23	10-Mar-23	15	Changing The Face Of Indian Entrepreneurship	194	
	195	2	02-Jan-23	10-Mar-23	15	Changing The Face Of Indian Entrepreneurship	196	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
	196	2	02-Jan-23	10-Mar-23	16	Pitchers Ki Taiyyari	197
	199	2	02-Jan-23	10-Mar-23	17	Innovation Hardwork And Diligence	200
	200	2	02-Jan-23	10-Mar-23	17	Innovation Hardwork And Diligence	201
	202	2	02-Jan-23	10-Mar-23	18	Business Ideas With Potential	203
	204	2	02-Jan-23	10-Mar-23	18	Business Ideas With Potential	205
	206	2	02-Jan-23	10-Mar-23	19	Building Brands For India	207
	207	2	02-Jan-23	10-Mar-23	19	Building Brands For India	208
	208	2	02-Jan-23	10-Mar-23	19	Building Brands For India	209
	209	2	02-Jan-23	10-Mar-23	20	Nurturing Indian Entrepreneurs	210
	211	2	02-Jan-23	10-Mar-23	20	Nurturing Indian Entrepreneurs	212
	212	2	02-Jan-23	10-Mar-23	21	Adhbhut Aur Anokhe Entrepreneurs	213
	213	2	02-Jan-23	10-Mar-23	21	Adhbhut Aur Anokhe Entrepreneurs	214
	216	2	02-Jan-23	10-Mar-23	22	Making Big Businesses	217
	217	2	02-Jan-23	10-Mar-23	22	Making Big Businesses	218
	218	2	02-Jan-23	10-Mar-23	22	Making Big Businesses	219
	219	2	02-Jan-23	10-Mar-23	23	Changing The World	220
	221	2	02-Jan-23	10-Mar-23	23	Changing The World	222
	223	2	02-Jan-23	10-Mar-23	24	India Ke Incredible	224

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
Entrepreneurs							
225	2	02-Jan-23	10-Mar-23	24	India Ke Incredible Entrepreneurs	226	
226	2	02-Jan-23	10-Mar-23	25	Badhta India	227	
227	2	02-Jan-23	10-Mar-23	25	Badhta India	228	S
230	2	02-Jan-23	10-Mar-23	26	Bharat Badal Raha Hai	231	
232	2	02-Jan-23	10-Mar-23	27	Nayi Soch Naye Vichaar	233	T
233	2	02-Jan-23	10-Mar-23	27	Nayi Soch Naye Vichaar	234	
235	2	02-Jan-23	10-Mar-23	27	Nayi Soch Naye Vichaar	236	
237	2	02-Jan-23	10-Mar-23	28	Game Changers	238	
238	2	02-Jan-23	10-Mar-23	28	Game Changers	239	
239	2	02-Jan-23	10-Mar-23	29	Pulse Of The Country	240	
240	2	02-Jan-23	10-Mar-23	29	Pulse Of The Country	241	
242	2	02-Jan-23	10-Mar-23	30	Changing India	243	
243	2	02-Jan-23	10-Mar-23	30	Changing India	244	
244	2	02-Jan-23	10-Mar-23	30	Changing India	245	
245	2	02-Jan-23	10-Mar-23	31	Innovations And Investments	246	
247	2	02-Jan-23	10-Mar-23	31	Innovations And Investments	248	

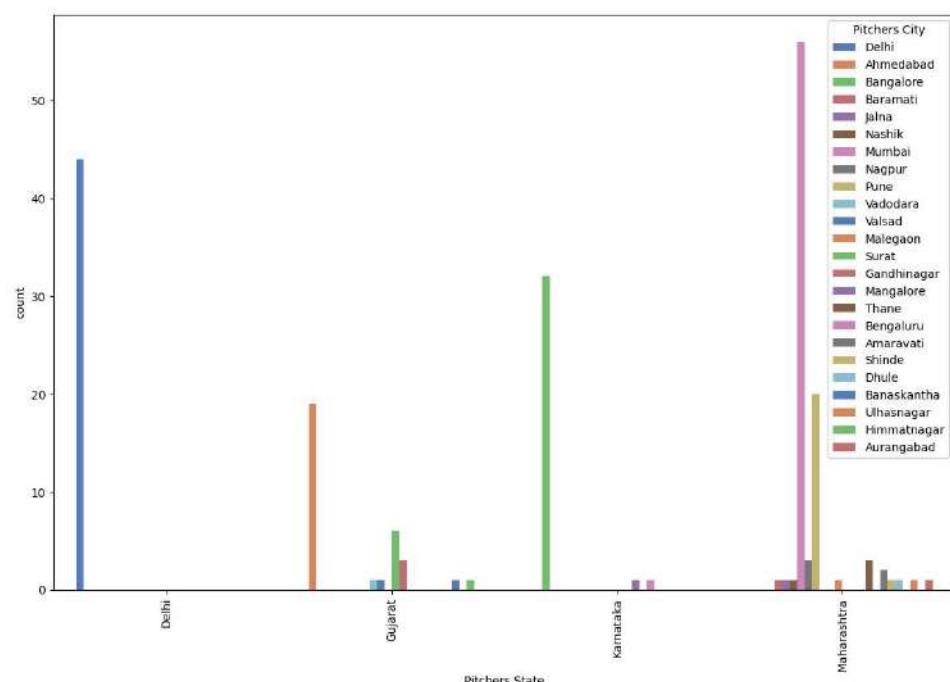
	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
	248	2	02-Jan-23	10-Mar-23	32	Pitch Perfect	249
	252	2	02-Jan-23	10-Mar-23	33	Growing With India	253
	253	2	02-Jan-23	10-Mar-23	33	Growing With India	254
	254	2	02-Jan-23	10-Mar-23	33	Growing With India	255
	258	2	02-Jan-23	10-Mar-23	35	Business Ideas Ka Pitara	259
	260	2	02-Jan-23	10-Mar-23	35	Business Ideas Ka Pitara	261
	267	2	02-Jan-23	10-Mar-23	37	Bharat Ka Kal	268
	270	2	02-Jan-23	10-Mar-23	38	Innovation And Imagination	271
	272	2	02-Jan-23	10-Mar-23	38	Innovation And Imagination	273
	274	2	02-Jan-23	10-Mar-23	39	Revolutionary Ideas And Successful Businesses	275
	276	2	02-Jan-23	10-Mar-23	39	Revolutionary Ideas And Successful Businesses	277
	278	2	02-Jan-23	10-Mar-23	40	Creating Valuable Businesses	279
	279	2	02-Jan-23	10-Mar-23	40	Creating Valuable Businesses	280
	280	2	02-Jan-23	10-Mar-23	41	Out Of The Box Business Ideas	281
	282	2	02-Jan-23	10-Mar-23	41	Out Of The Box Business Ideas	283
	284	2	02-Jan-23	10-Mar-23	42	Building Businesses From Scratch	285

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
	285	2	02-Jan-23	10-Mar-23	42	Building Businesses From Scratch	286
	286	2	02-Jan-23	10-Mar-23	42	Building Businesses From Scratch	287
	287	2	02-Jan-23	10-Mar-23	42	Building Businesses From Scratch	288
	289	2	02-Jan-23	10-Mar-23	43	Creating Value Through Ideas	290
	290	2	02-Jan-23	10-Mar-23	43	Creating Value Through Ideas	291
	292	2	02-Jan-23	10-Mar-23	44	Entrepreneurship Ka Junoon	293
	294	2	02-Jan-23	10-Mar-23	44	Entrepreneurship Ka Junoon	295
	295	2	02-Jan-23	10-Mar-23	44	Entrepreneurship Ka Junoon	296
	298	2	02-Jan-23	10-Mar-23	45	True Meaning Of Entrepreneurship	299
	299	2	02-Jan-23	10-Mar-23	46	Different Colours Of Entrepreneurship	300
	300	2	02-Jan-23	10-Mar-23	46	Different Colours Of Entrepreneurship	301 Th
	302	2	02-Jan-23	10-Mar-23	46	Different Colours Of Entrepreneurship	303 Thel
	304	2	02-Jan-23	10-Mar-23	47	Tunnel Se Tank Tak Ka Safar	305
	306	2	02-Jan-23	10-Mar-23	48	Pitchers, Investments And Businesses	307
	308	2	02-Jan-23	10-Mar-23	48	Pitchers, Investments And Businesses	309 Bot
	309	2	02-Jan-23	10-Mar-23	48	Pitchers, Investments And	310

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
Businesses							
310	2	02-Jan-23	10-Mar-23	49	Businesses Adding Value To Society	311	F
312	2	02-Jan-23	10-Mar-23	49	Businesses Adding Value To Society	313	F
313	2	02-Jan-23	10-Mar-23	49	Businesses Adding Value To Society	314	F
314	2	02-Jan-23	10-Mar-23	50	Season Finale With The Sharks	315	F
315	2	02-Jan-23	10-Mar-23	50	Season Finale With The Sharks	316	F
316	2	02-Jan-23	10-Mar-23	51	Gateway To Shark Tank India	317	F
317	2	02-Jan-23	10-Mar-23	51	Gateway To Shark Tank India	318	F
319	2	02-Jan-23	10-Mar-23	51	Gateway To Shark Tank India	320	F

In [121]:

```
plt.figure(figsize=(14,9))
sns.countplot(x="Pitchers State", data=x, hue="Pitchers City", palette="viridis")
plt.xticks(rotation=90);
```



## Creating a Zone for states and city

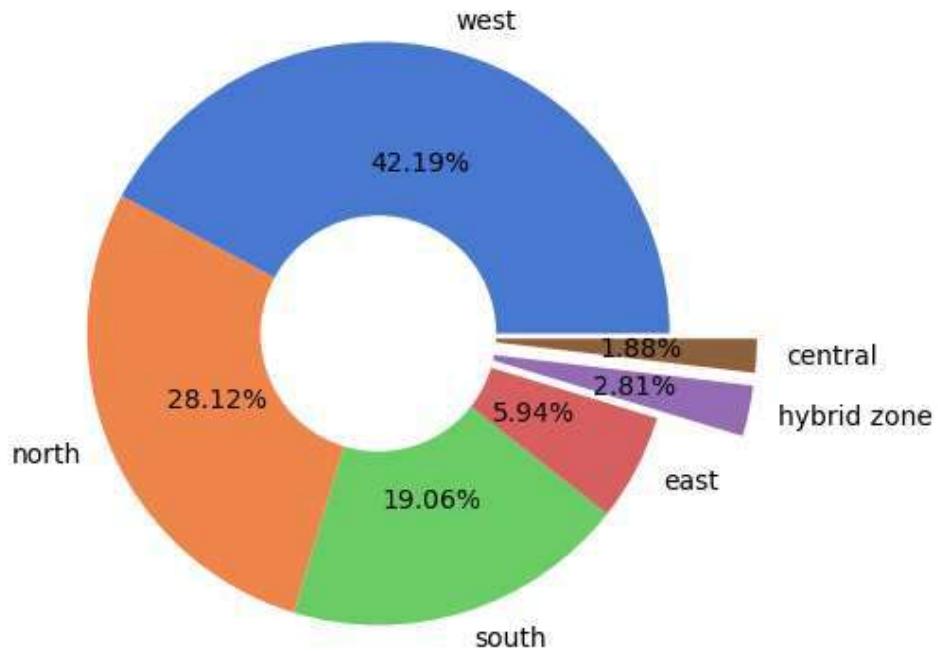
```
In [122...]  
north=["Delhi","Punjab","Delhi,Punjab","Haryana","Jammu & Kashmir"]  
central=["Madhya Pradesh","Chhattisgarh"]  
south=["Karnataka","Telangana",'Kerala',"Tamil Nadu","Goa","Karnat  
west=["Gujarat","Maharashtra","Rajasthan"]  
east=["Bihar","West Bengal","Jharkhand","Arunachal Pradesh"]  
hybrid=["Karnataka,West Bengal","Delhi,Maharashtra","Haryana,Madhy  
  
index=0  
df["zones"]=pd.Series()  
  
for i in df["Pitchers State"]:  
    if i in north:  
        df.loc[index,"zones"]="north"  
    elif i in south:  
        df.loc[index,"zones"]="south"  
    elif i in central:  
        df.loc[index,"zones"]="central"  
    elif i in west:  
        df.loc[index,"zones"]="west"  
    elif i in east:  
        df.loc[index,"zones"]="east"  
  
    else:  
        df.loc[index,"zones"]="hybrid zone"  
index=index+1
```

## Most and Least Actively participating zone

```
In [123...]  
df["zones"].value_counts()
```

```
Out[123]:  
zones  
west      135  
north     90  
south     61  
east      19  
hybrid zone    9  
central     6  
Name: count, dtype: int64
```

```
In [124...]  
plt.figure(figsize=(8,5))  
plt.pie(df["zones"].value_counts().values,labels=df["zones"].value  
circle = plt.Circle( (0,0), 0.4, color='white')  
p=plt.gcf()  
p.gca().add_artist(circle);
```



## How many entrepreneurs patent their ideas

```
In [125...]: df["Has Patents"].value_counts()
```

```
Out[125]: Has Patents
0    313
1     7
Name: count, dtype: int64
```

only 7 entrepreneurs has patents . Who were they ?

```
In [126...]: df[df["Has Patents"]==1].iloc[:,[6,7,8,16,17]]
```

	Startup Name	Industry	Business Description	Pitchers City	Pitchers
205	Sayonara	Beauty/Fashion	Petticoat	Kolkata	West Bengal
245	Tipayi	Manufacturing	Balance Bike for Kids	Pune	Maharashtra
266	Hornback	Vehicles/Electrical Vehicles	Diamond frame folding bicycles	Hyderabad	Telangana
268	nanoclean	Manufacturing	Contamination Control Solutions	Bikaner	Rajasthan
281	Trunome	Medical/Health	Post Transplant Care	Chennai	Tamil Nadu
297	Subhag	Medical/Health	Health-tech IUI Treatment Procedure for Infert...	Jhumri Telaiya,Raipur	Jharkhand,Chhattisgarh
311	Sahayatha	Medical/Health	smart wheelchair with an assistive cleansing d...	Coimbatore	Tamil Nadu

## Which was the oldest and latest startup participated in shark tank

In [127]: df["Started in"].min()

Out[127]: 0

In [128]: year=df[df["Started in"]!=0] ## 0 means no information or about to start

Out[128]:

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
0	1	20-Dec-21	04-Feb-22	1	Badlegi Business Ki Tasveer	1	
1	1	20-Dec-21	04-Feb-22	1	Badlegi Business Ki Tasveer	2	
2	1	20-Dec-21	04-Feb-22	1	Badlegi Business Ki Tasveer	3	Heal
3	1	20-Dec-21	04-Feb-22	2	Insaan, Ideas Aur Sapne	4	
4	1	20-Dec-21	04-Feb-22	2	Insaan, Ideas Aur Sapne	5	I
5	1	20-Dec-21	04-Feb-22	2	Insaan, Ideas Aur Sapne	6	
6	1	20-Dec-21	04-Feb-22	3	Aam Aadmi Ke Business Ideas	7	
7	1	20-Dec-21	04-Feb-22	3	Aam Aadmi Ke Business Ideas	8	
8	1	20-Dec-21	04-Feb-22	3	Aam Aadmi Ke Business Ideas	9	
9	1	20-Dec-21	04-Feb-22	4	Entrepreneurship Ki Wave	10	
10	1	20-Dec-21	04-Feb-22	4	Entrepreneurship Ki Wave	11	
11	1	20-Dec-21	04-Feb-22	4	Entrepreneurship Ki Wave	12	
13	1	20-Dec-21	04-Feb-22	5	Hunt For Interesting Business	14	
14	1	20-Dec-21	04-Feb-22	5	Hunt For Interesting Business	15	Shra
17	1	20-Dec-21	04-Feb-22	6	New Week, New Ideas	18	
18	1	20-Dec-21	04-Feb-22	7	A Never Give Up Spirit	19	Rai
19	1	20-Dec-21	04-Feb-22	7	A Never Give Up Spirit	20	
25	1	20-Dec-21	04-Feb-22	9	Defining Innovations	26	
26	1	20-Dec-21	04-Feb-22	9	Defining Innovations	27	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
	28	1	20-Dec-21	04-Feb-22	10	Passion About Entrepreneurship	29
	31	1	20-Dec-21	04-Feb-22	11	Investment Paane Ka Sapna	32
	32	1	20-Dec-21	04-Feb-22	11	Investment Paane Ka Sapna	33 ARRCOATS
	33	1	20-Dec-21	04-Feb-22	11	Investment Paane Ka Sapna	34
	37	1	20-Dec-21	04-Feb-22	13	Ideas By Young Entrepreneurs	38
	40	1	20-Dec-21	04-Feb-22	14	Naye Aur Nayab Pitchers	41 TI
	41	1	20-Dec-21	04-Feb-22	14	Naye Aur Nayab Pitchers	42 Mor
	44	1	20-Dec-21	04-Feb-22	15	It's Time To Change	45
	45	1	20-Dec-21	04-Feb-22	15	It's Time To Change	46
	46	1	20-Dec-21	04-Feb-22	16	Winning The Sharks Trust	47
	48	1	20-Dec-21	04-Feb-22	16	Winning The Sharks Trust	49
	49	1	20-Dec-21	04-Feb-22	16	Winning The Sharks Trust	50
	50	1	20-Dec-21	04-Feb-22	17	A Wave Of Startups	51 Find
	51	1	20-Dec-21	04-Feb-22	17	A Wave Of Startups	52
	52	1	20-Dec-21	04-Feb-22	17	A Wave Of Startups	53
	53	1	20-Dec-21	04-Feb-22	17	A Wave Of Startups	54
	54	1	20-Dec-21	04-Feb-22	18	Investing In Profitable Businesses	55 Mc
	55	1	20-Dec-21	04-Feb-22	18	Investing In Profitable Businesses	56 Ind

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
	56	1	20-Dec-21	04-Feb-22	18	Investing In Profitable Businesses	57
	57	1	20-Dec-21	04-Feb-22	18	Investing In Profitable Businesses	58
	58	1	20-Dec-21	04-Feb-22	19	Forming An Idea And Bagging A Deal	59
	62	1	20-Dec-21	04-Feb-22	20	A Variety Of Ideas	63
	63	1	20-Dec-21	04-Feb-22	20	A Variety Of Ideas	64
	64	1	20-Dec-21	04-Feb-22	20	A Variety Of Ideas	65
	65	1	20-Dec-21	04-Feb-22	21	Game-changing Ideas	66
	66	1	20-Dec-21	04-Feb-22	21	Game-changing Ideas	67
	67	1	20-Dec-21	04-Feb-22	21	Game-changing Ideas	68
	68	1	20-Dec-21	04-Feb-22	22	Turning Ideas Into Businesses	69
	70	1	20-Dec-21	04-Feb-22	22	Turning Ideas Into Businesses	71
	71	1	20-Dec-21	04-Feb-22	22	Turning Ideas Into Businesses	72
	72	1	20-Dec-21	04-Feb-22	23	Investing In Innovation	73
	73	1	20-Dec-21	04-Feb-22	23	Investing In Innovation	74
	74	1	20-Dec-21	04-Feb-22	23	Investing In Innovation	75
	75	1	20-Dec-21	04-Feb-22	23	Investing In Innovation	76
	76	1	20-Dec-21	04-Feb-22	24	A Decade Of Indian Entrepreneurship	77
	77	1	20-Dec-21	04-Feb-22	24	A Decade Of Indian Entrepreneurship	78
	78	1	20-Dec-21	04-Feb-22	24	A Decade Of Indian Entrepreneurship	79

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
	79	1	20-Dec-21	04-Feb-22	25	An Ocean Of Opportunities	80
	80	1	20-Dec-21	04-Feb-22	25	An Ocean Of Opportunities	81 Sunfc
	81	1	20-Dec-21	04-Feb-22	25	An Ocean Of Opportunities	82
	82	1	20-Dec-21	04-Feb-22	26	Revolutionary Ideas	83
	83	1	20-Dec-21	04-Feb-22	26	Revolutionary Ideas	84 Jul
	84	1	20-Dec-21	04-Feb-22	26	Revolutionary Ideas	85
	85	1	20-Dec-21	04-Feb-22	27	Investing In The Future Of India	86
	86	1	20-Dec-21	04-Feb-22	27	Investing In The Future Of India	87 Watt
	87	1	20-Dec-21	04-Feb-22	27	Investing In The Future Of India	88 Alist
	88	1	20-Dec-21	04-Feb-22	27	Investing In The Future Of India	89 Insur
	89	1	20-Dec-21	04-Feb-22	28	Meeting The New India Minds	90
	90	1	20-Dec-21	04-Feb-22	28	Meeting The New India Minds	91
	91	1	20-Dec-21	04-Feb-22	28	Meeting The New India Minds	92 Gol
	92	1	20-Dec-21	04-Feb-22	29	Businesses Of Tomorrow	93
	93	1	20-Dec-21	04-Feb-22	29	Businesses Of Tomorrow	94
	94	1	20-Dec-21	04-Feb-22	29	Businesses Of Tomorrow	95
	95	1	20-Dec-21	04-Feb-22	30	Sharks Ki Expertise	96
	96	1	20-Dec-21	04-Feb-22	30	Sharks Ki Expertise	97
	97	1	20-Dec-21	04-Feb-22	30	Sharks Ki Expertise	98 S
	99	1	20-Dec-21	04-Feb-22	31	Entrepreneurship Ki Raah	100
	101	1	20-Dec-21	04-Feb-22	31	Entrepreneurship Ki Raah	102

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
102	1	20-Dec-21	04-Feb-22	31	Entrepreneurship Ki Raah	103	
103	1	20-Dec-21	04-Feb-22	32	The Road To Success	104	
104	1	20-Dec-21	04-Feb-22	32	The Road To Success	105	
105	1	20-Dec-21	04-Feb-22	32	The Road To Success	106	
106	1	20-Dec-21	04-Feb-22	32	The Road To Success	107	
107	1	20-Dec-21	04-Feb-22	33	Life-Changing Ideas	108	Colour
108	1	20-Dec-21	04-Feb-22	33	Life-Changing Ideas	109	
109	1	20-Dec-21	04-Feb-22	33	Life-Changing Ideas	110	
110	1	20-Dec-21	04-Feb-22	33	Life-Changing Ideas	111	
111	1	20-Dec-21	04-Feb-22	34	Scaling Ambitions	112	Nom
112	1	20-Dec-21	04-Feb-22	34	Scaling Ambitions	113	
113	1	20-Dec-21	04-Feb-22	34	Scaling Ambitions	114	
115	1	20-Dec-21	04-Feb-22	35	The Final Destination	116	
116	1	20-Dec-21	04-Feb-22	35	The Final Destination	117	
117	1	20-Dec-21	04-Feb-22	35	The Final Destination	118	
118	1	20-Dec-21	04-Feb-22	36	Gateway To Shark Tank India	119	
119	1	20-Dec-21	04-Feb-22	36	Gateway To Shark Tank India	120	
120	1	20-Dec-21	04-Feb-22	36	Gateway To Shark Tank India	121	
121	1	20-Dec-21	04-Feb-22	36	Gateway To Shark Tank India	122	
122	1	20-	04-	0	Unseen	123	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
		Dec-21	Feb-22				
<b>123</b>	1	20-Dec-21	04-Feb-22	0	Unseen	124	
<b>124</b>	1	20-Dec-21	04-Feb-22	0	Unseen	125	
<b>125</b>	1	20-Dec-21	04-Feb-22	0	Unseen	126	
<b>126</b>	1	20-Dec-21	04-Feb-22	0	Unseen	127	
<b>128</b>	1	20-Dec-21	04-Feb-22	0	Unseen	129	
<b>129</b>	1	20-Dec-21	04-Feb-22	0	Unseen	130	
<b>130</b>	1	20-Dec-21	04-Feb-22	0	Unseen	131	
<b>131</b>	1	20-Dec-21	04-Feb-22	0	Unseen	132	
<b>132</b>	1	20-Dec-21	04-Feb-22	0	Unseen	133	
<b>133</b>	1	20-Dec-21	04-Feb-22	0	Unseen	134	
<b>135</b>	1	20-Dec-21	04-Feb-22	0	Unseen	136	
<b>136</b>	1	20-Dec-21	04-Feb-22	0	Unseen	137	
<b>138</b>	1	20-Dec-21	04-Feb-22	0	Unseen	139	
<b>139</b>	1	20-Dec-21	04-Feb-22	0	Unseen	140	
<b>140</b>	1	20-Dec-21	04-Feb-22	0	Unseen	141	
<b>141</b>	1	20-Dec-21	04-Feb-22	0	Unseen	142	
<b>142</b>	1	20-Dec-21	04-Feb-22	0	Unseen	143	
<b>146</b>	1	20-Dec-21	04-Feb-22	0	Unseen	147	
<b>149</b>	1	20-Dec-21	04-Feb-22	0	Unseen	150	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
	151	1	20-Dec-21	04-Feb-22	0	Unseen	152
	155	2	02-Jan-23	10-Mar-23	2	A Bigger Vision	156
	156	2	02-Jan-23	10-Mar-23	2	A Bigger Vision	157
	162	2	02-Jan-23	10-Mar-23	4	Ideas Meets Opportunity	163
	165	2	02-Jan-23	10-Mar-23	5	Investing in the Future of India	166
	174	2	02-Jan-23	10-Mar-23	8	Investment with Intent	175
	176	2	02-Jan-23	10-Mar-23	9	Invest In Lifestyle	177
	183	2	02-Jan-23	10-Mar-23	11	Investing The Right Way	184
	185	2	02-Jan-23	10-Mar-23	12	Pitchers Ki Undying Spirit	186
	189	2	02-Jan-23	10-Mar-23	13	Up And Coming Business Ideas	190
	190	2	02-Jan-23	10-Mar-23	14	Investment Worthy Ideas	191
	193	2	02-Jan-23	10-Mar-23	15	Changing The Face Of Indian Entrepreneurship	194
	194	2	02-Jan-23	10-Mar-23	15	Changing The Face Of Indian Entrepreneurship	195
	195	2	02-Jan-23	10-Mar-23	15	Changing The Face Of Indian Entrepreneurship	196
	196	2	02-Jan-23	10-Mar-23	16	Pitchers Ki Taiyyari	197
	198	2	02-Jan-23	10-Mar-23	16	Pitchers Ki Taiyyari	199
	199	2	02-Jan-23	10-Mar-23	17	Innovation Hardwork And Diligence	200
	200	2	02-Jan-23	10-Mar-23	17	Innovation Hardwork And Diligence	201

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
201	2	02-Jan-23	10-Mar-23	17	Innovation Hardwork And Diligence	202	
202	2	02-Jan-23	10-Mar-23	18	Business Ideas With Potential	203	
203	2	02-Jan-23	10-Mar-23	18	Business Ideas With Potential	204	
206	2	02-Jan-23	10-Mar-23	19	Building Brands For India	207	
207	2	02-Jan-23	10-Mar-23	19	Building Brands For India	208	
209	2	02-Jan-23	10-Mar-23	20	Nurturing Indian Entrepreneurs	210	
212	2	02-Jan-23	10-Mar-23	21	Adhbbut Aur Anokhe Entrepreneurs	213	Ch
217	2	02-Jan-23	10-Mar-23	22	Making Big Businesses	218	
220	2	02-Jan-23	10-Mar-23	23	Changing The World	221	Swa
226	2	02-Jan-23	10-Mar-23	25	Badhta India	227	
227	2	02-Jan-23	10-Mar-23	25	Badhta India	228	S
229	2	02-Jan-23	10-Mar-23	26	Bharat Badal Raha Hai	230	
230	2	02-Jan-23	10-Mar-23	26	Bharat Badal Raha Hai	231	
231	2	02-Jan-23	10-Mar-23	26	Bharat Badal Raha Hai	232	
232	2	02-Jan-23	10-Mar-23	27	Nayi Soch Naye Vichaar	233	T
234	2	02-Jan-23	10-Mar-23	27	Nayi Soch Naye Vichaar	235	
236	2	02-Jan-23	10-Mar-23	28	Game Changers	237	
237	2	02-Jan-23	10-Mar-23	28	Game Changers	238	
241	2	02-Jan-23	10-Mar-23	29	Pulse Of The Country	242	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
	<b>244</b>	2	02-Jan-23	10-Mar-23	30	Changing India	245
	<b>245</b>	2	02-Jan-23	10-Mar-23	31	Innovations And Investments	246
	<b>252</b>	2	02-Jan-23	10-Mar-23	33	Growing With India	253
	<b>256</b>	2	02-Jan-23	10-Mar-23	34	Growing Ideas Into Successful Businesses	257
	<b>257</b>	2	02-Jan-23	10-Mar-23	34	Growing Ideas Into Successful Businesses	258
	<b>262</b>	2	02-Jan-23	10-Mar-23	36	Anokhe Pitchers Ke Anokhe Ideas	263
	<b>263</b>	2	02-Jan-23	10-Mar-23	36	Anokhe Pitchers Ke Anokhe Ideas	264
	<b>268</b>	2	02-Jan-23	10-Mar-23	37	Bharat Ka Kal	269
	<b>273</b>	2	02-Jan-23	10-Mar-23	39	Revolutionary Ideas And Successful Businesses	274
	<b>274</b>	2	02-Jan-23	10-Mar-23	39	Revolutionary Ideas And Successful Businesses	275
	<b>275</b>	2	02-Jan-23	10-Mar-23	39	Revolutionary Ideas And Successful Businesses	276
	<b>277</b>	2	02-Jan-23	10-Mar-23	40	Creating Valuable Businesses	278
	<b>280</b>	2	02-Jan-23	10-Mar-23	41	Out Of The Box Business Ideas	281
	<b>282</b>	2	02-Jan-23	10-Mar-23	41	Out Of The Box Business Ideas	283
	<b>284</b>	2	02-Jan-23	10-Mar-23	42	Building Businesses From Scratch	285
	<b>285</b>	2	02-Jan-23	10-Mar-23	42	Building Businesses From Scratch	286

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
289	2	02-Jan-23	10-Mar-23	43	Creating Value Through Ideas	290	
292	2	02-Jan-23	10-Mar-23	44	Entrepreneurship Ka Junoon	293	
293	2	02-Jan-23	10-Mar-23	44	Entrepreneurship Ka Junoon	294	
298	2	02-Jan-23	10-Mar-23	45	True Meaning Of Entrepreneurship	299	
301	2	02-Jan-23	10-Mar-23	46	Different Colours Of Entrepreneurship	302	
302	2	02-Jan-23	10-Mar-23	46	Different Colours Of Entrepreneurship	303	The
303	2	02-Jan-23	10-Mar-23	47	Tunnel Se Tank Tak Ka Safar	304	
306	2	02-Jan-23	10-Mar-23	48	Pitchers, Investments And Businesses	307	
309	2	02-Jan-23	10-Mar-23	48	Pitchers, Investments And Businesses	310	
310	2	02-Jan-23	10-Mar-23	49	Businesses Adding Value To Society	311	F
311	2	02-Jan-23	10-Mar-23	49	Businesses Adding Value To Society	312	
312	2	02-Jan-23	10-Mar-23	49	Businesses Adding Value To Society	313	
313	2	02-Jan-23	10-Mar-23	49	Businesses Adding Value To Society	314	
314	2	02-Jan-23	10-Mar-23	50	Season Finale With The Sharks	315	
318	2	02-Jan-23	10-Mar-23	51	Gateway To Shark Tank India	319	

In [129...]

year[year["Started in"]==year["Started in"].min()]

Out[129]:

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	Startup Name	Industry
5	1	20-Dec-21	04-Feb-22	2	Insaan, Ideas Aur Sapne	6	Agritourism	Agriculture

In [130...]

year[year["Started in"]==year["Started in"].max()]

Out[130]:

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	Startup Name	Industry
83	1	20-Dec-21	04-Feb-22	26	Revolutionary Ideas	84	JulaaAutomati	Automotive
202	2	02-Jan-23	10-Mar-23	18	Business Ideas With Potential	203	Raa	Real Estate
229	2	02-Jan-23	10-Mar-23	26	Bharat Badal Raha Hai	230	GavinPa	Personal Care
230	2	02-Jan-23	10-Mar-23	26	Bharat Badal Raha Hai	231	UnSt	Unstoppable
262	2	02-Jan-23	10-Mar-23	36	Anokhe Pitchers Ke Anokhe Ideas	263	neuphc	Healthcare
273	2	02-Jan-23	10-Mar-23	39	Revolutionary Ideas And Successful Businesses	274	Glad	Manufacturing
274	2	02-Jan-23	10-Mar-23	39	Revolutionary Ideas And Successful Businesses	275	Pharmallai	Pharmaceuticals
277	2	02-Jan-23	10-Mar-23	40	Creating Valuable Businesses	278	Ho	Food & Beverage
311	2	02-Jan-23	10-Mar-23	49	Businesses Adding Value To Society	312	Sahayat	Social Sector

## How many deals were finalized

In [131...]

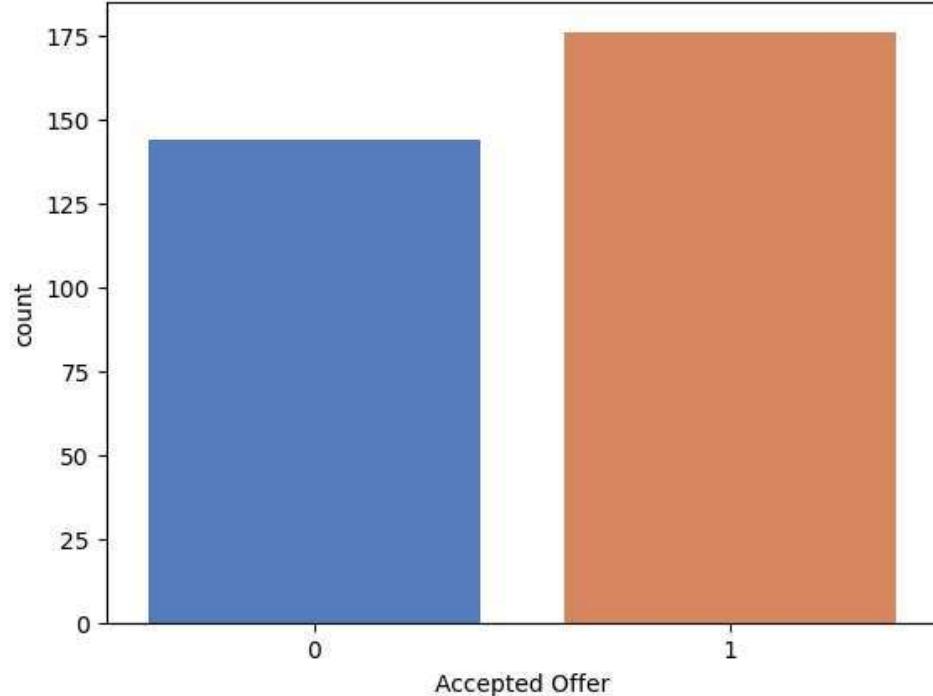
df["Accepted Offer"].value\_counts()

```
Out[131]: Accepted Offer  
1    176  
0    144  
Name: count, dtype: int64
```

- 176 deals were accepted
- 144 deals were rejected

mostly deals were finalized

```
In [132... sns.countplot(x="Accepted Offer", data=df, palette="muted");  
# unseen are included
```



### Insight:

- in season 1 - more deals were rejected than accepted
- in season 2 - more deals were accepted than rejected

## The ideas and details of brands whose deals were accepted.

```
In [133... df_ac=df[df["Accepted Offer"]==1]  
df_ac[["Startup Name", "Industry", "Business Description"]]
```

Out[133]:	Startup Name	Industry	Business Description
0	BluePineFoods	Food	Frozen Momos
1	BoozScooters	Vehicles/Electrical Vehicles	Renting e-bike for mobility in private spaces
2	HeartUpMySleeves	Beauty/Fashion	Detachable Sleeves
3	TagzFoods	Food	Healthy Potato Chips Snacks
7	Peeschute	Beauty/Fashion	Disposable Urine Bag
8	NOCD	Food	Energy Drink
9	CosiQ	Beauty/Fashion	Intelligent Skincare
10	JhaJiAchaar	Food	Pickle
11	Bummer	Beauty/Fashion	Underwear
12	RevampMoto	Vehicles/Electrical Vehicles	E-Bike Mitra bud-e RM
15	SkippilcePops	Food	Ice-Pops
16	Menstrupedia	Education	Menstrual Awareness Comic
18	RaisingSuperstars	Education	Child Development App
20	Kavach	Education	Report bullying incidents
22	BeyondSnack	Food	Kerala Banana Chips
23	VivalyfInnovations	Medical/Health	Easy Life Prickless Diabetes Testing Machine
24	MotionBreeze	Vehicles/Electrical Vehicles	Smart Electric Motorcycle
25	Altor	Manufacturing	Smart Helmets
26	Ariro	Manufacturing	Wooden Toys
28	Nuutjob	Beauty/Fashion	Male Intimate Hygiene deo spray
29	Meatyour	Food	Eggs
30	EventBeep	Education	Student Community App EdTech
32	ARRCOATSurfaceTextures	Manufacturing	Wall Building Surface Textures
33	Farda	Beauty/Fashion	Customised Streetwear
34	Auli	Beauty/Fashion	Ayurvedic Products Skincare Lifestyle
36	LOKA	Technology/Software	Metaverse App
37	Annie	Education	Thinkerbell labs Braille Literary Device
38	Carragreen	Manufacturing	Eco-Friendly boxes

	<b>Startup Name</b>	<b>Industry</b>	<b>Business Description</b>
<b>39</b>	TheYarnBazaar	Manufacturing	Yarn-Trading App Online Marketplace for Yarn
<b>40</b>	TheRenalProject	Medical/Health	Home Dialysis Treatment
<b>43</b>	HammerLifestyle	Electronics	Smart Audio Products
<b>44</b>	PNT	Technology/Software	Robotics and Automation Solutions
<b>45</b>	Cocofit	Food	Coconut based beverage franchise
<b>46</b>	BambooIndia	Manufacturing	Bamboo Products
<b>48</b>	BeyondWater	Food	Liquid Water Enhancer
<b>49</b>	Let'sTry	Food	Healthy Snacks
<b>50</b>	FindYourKicksIndia	Beauty/Fashion	Sneaker Resale
<b>51</b>	AasVidyalaya	Education	EdTech App
<b>53</b>	RoadBounce	Technology/Software	Pothole Detection Software and Data
<b>56</b>	Otua	Vehicles/Electrical Vehicles	Electric Auto Vehicle Dandera
<b>59</b>	WeSTOCK	Animal/Pets	Brainwired Livestock health monitoring AI pets...
<b>62</b>	TheStatePlate	Food	Delicacies
<b>64</b>	INACAN	Food	Can Cocktails
<b>65</b>	Get-A-Whey	Food	Sugar-Free Icecream
<b>66</b>	Sid07Designs	Hardware	Inventions
<b>67</b>	TheQuirkyNaari	Beauty/Fashion	Customised Apparels
<b>68</b>	HairOriginals	Beauty/Fashion	Natural Hair Extensions
<b>72</b>	NamhyaFoods	Food	Ayurvedic Enriched Food
<b>76</b>	TheSassBar	Beauty/Fashion	Gifts Soaps
<b>77</b>	KGAgrotech	Agriculture	Agricultural Innovations
<b>79</b>	PawsIndia	Animal/Pets	Dog Products
<b>80</b>	SunfoxTechnologies	Medical/Health	Portable ECG Device
<b>82</b>	IsakFragrances	Beauty/Fashion	Perfumes Fragrances
<b>84</b>	RarePlanet	Manufacturing	Handicrafts
<b>86</b>	WattTechnovations	Medical/Health	Ventilated PPE Kits
<b>88</b>	InsuranceSamadhan	Services	Insurance Solutions
<b>89</b>	HumpyA2	Food	Organic Milk A2 Products
<b>91</b>	GoldSafeSolutions	Manufacturing	Anti-Suicidal Fan Rod
<b>92</b>	WakaoFoods	Food	Jackfruit Products

	<b>Startup Name</b>	<b>Industry</b>	<b>Business Description</b>
96	KabaddiAdda	Sports	All-Kabaddi App
101	AyuRhythm	Medical/Health	Ayurvedic Wellness App
105	GrowFitter	Technology/Software	Rewards App
107	ColourMeMad-CMM	Beauty/Fashion	Insoles
109	TweekLabs	Sports	Sportswear
110	Proxgy	Technology/Software	Virtual Reality
111	NomadFoodProject	Food	Bacon Jams Relishes
115	JainShikanji	Food	Lemonade
118	SneaKare	Beauty/Fashion	Shoe Sneaker kits storage crates
120	StoreMyGoods	Services	Storage solutions
122	WitBlox	Manufacturing	Kids playing equipment
152	Hoovu	Services	Fresh Pooja flowers
153	Dorji	Food	Flavors of Tea
155	VeryMuchIndian	Beauty/Fashion	Paithani Handloom Sarees
156	WatchoutWearables	Electronics	Smart watches
157	SoupX	Food	Soup based meals
159	Stage	Entertainment	Web series and movies in Indian languages
160	Girgit	Beauty/Fashion	color-changing clothing products
161	GearHeadMotors	Vehicles/Electrical Vehicles	Electric vehicles bikes
162	PatilKaki	Food	Homemade snacks
163	Brandsdaddy	Manufacturing	Auto Fire Extinguisher
164	Winston	Beauty/Fashion	Techno beauty products at home
167	TeaFit	Liquor/Beverages	Refreshing beverages
168	Haqdarshak	Services	Platform to know about welfare schemes for MSMEs
171	TheSimplySalad	Food	Freshly chopped salads
172	AyuSynk	Medical/Health	Digital Stethoscopes
173	AtypicalAdvantage	Technology/Software	Platform for persons with disabilities
174	HouseOfChikankari	Beauty/Fashion	HANDMADE BY ARTISANS OF LUCKNOW
176	Paradyes	Beauty/Fashion	Semi Permanent Hair Color

	<b>Startup Name</b>	<b>Industry</b>	<b>Business Description</b>
177	Nestroots	Furnishing/Household	House of design, aesthetics and elegance
178	Zillionaire	Beauty/Fashion	Unique styles of stones and jewels
180	Freebowler	Sports	Non-Electric & Portable Bowling Machines
181	ABC Sports&Fitness	Sports	Sports training institute
182	Primebook	Technology/Software	Android Apps on Windows laptops
183	DailyDump	Manufacturing	Compost Bins
184	GharSoaps	Beauty/Fashion	Pure Organic Soaps
185	Janitri	Medical/Health	Pregnancy Monitoring systems
187	InsideFPV	Manufacturing	Plug and Fly Drones
188	Angrakhaa	Beauty/Fashion	Contemporary Indian clothing
190	Kyari	Manufacturing	Smart stick Guardian
191	MoppFoods	Food	Mad over Parathas Pakodas
193	Dobiee	Food	CANDIES MUSKIEE TOYS
194	FastBeetle	Services	Local courier and parcel service
195	Pflow	Medical/Health	Disposable uroflowmetry system
196	VSMani	Food	Coffee and snacks
197	Sepal	Manufacturing	Bike Accessories
198	Solinas	Services	Products organise the management of pipelines,...
201	ekatra	Furnishing/Household	Handmade paper goods
202	Raasa	Food	Food karts
203	NeoMotion	Manufacturing	Wheelchairs
204	licksters	Food	Icecreams ice-pops
207	SpiceStory	Food	Indian Sauces Chutneys
208	Bullspreee	Technology/Software	App to learn stock market basics
209	Snitch	Beauty/Fashion	Menswear
210	Portl	Services	Portl studio gym
213	Dabble	Manufacturing	Paints Crayons Brushes
216	Broomees	Services	Helpers homemakers for your home

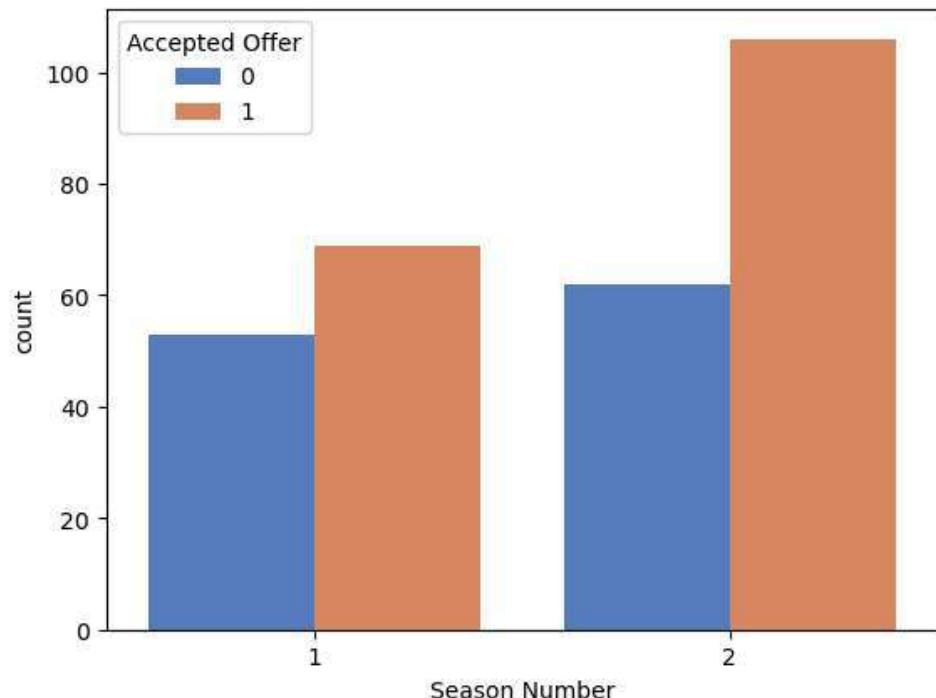
	<b>Startup Name</b>	<b>Industry</b>	<b>Business Description</b>
<b>217</b>	Ravel	Beauty/Fashion	Custom Hair Products
<b>218</b>	HoneyVeda	Food	Honey in natural nutritious form
<b>219</b>	PadCare	Manufacturing	Menstrual hygiene disposal solution
<b>220</b>	SwadeshiBlessings	Furnishing/Household	Clay utensils and cookwares
<b>221</b>	OLL	Technology/Software	Online Live Learning Skill development classes
<b>223</b>	Geeani	Vehicles/Electrical Vehicles	Smallest EV tractor
<b>224</b>	Amore	Food	Gelato Ice Cream Online
<b>226</b>	ScrapUncle	Services	Sell scrap recyclables online
<b>227</b>	SharmaJiKiAata	Food	Freshly milled atta
<b>228</b>	Manetain	Beauty/Fashion	Curly Hair Care Products
<b>230</b>	UnStop	Technology/Software	Connecting talent colleges recruiters
<b>231</b>	BlueTea	Food	Ayurvedic Herbal Tea
<b>232</b>	TheGreenSnack	Food	Healthy Snacks Online
<b>236</b>	Zoff	Food	Cool Grind Technology Indian Spices
<b>238</b>	CloudWorx	Technology/Software	NoCode Enterprise Metaverse App Builder
<b>239</b>	Mahantam	Manufacturing	Tea Glass Washing Machine
<b>240</b>	MindPeers	Medical/Health	For Mental Strength
<b>242</b>	Daryaganj	Food	North Indian Cuisine restaurant
<b>243</b>	DhruvVidyut	Vehicles/Electrical Vehicles	Invention converts cycle into an electric cycle
<b>246</b>	DigiQure	Medical/Health	Book Doctors Appointments Video Consultation
<b>248</b>	Pabiben	Beauty/Fashion	Handcrafted products sold directly by artisans
<b>249</b>	Homestrap	Furnishing/Household	Collection of organizer for home and travelling
<b>250</b>	uBreathe	Manufacturing	Smart Natural Air Purifier
<b>252</b>	iMumz	Medical/Health	Transforming pregnancy and parenting with app
<b>253</b>	TheHealthyBinge	Food	Assorted Pack Baked

Startup Name	Industry	Business Description	
			Chips
254	Freakins	Beauty/Fashion	Fashionable Denim Apparel
255	Perfora	Furnishing/Household	Toothpaste Electric Toothbrush
257	CureSee	Medical/Health	Artificial Intelligence (AI) based vision therapy
258	MeduLance	Medical/Health	One-stop solution for all healthcare needs
259	Cakelicious	Food	Cakes Online
262	neuphony	Medical/Health	Wearable EEG Headband
264	HoloKitab	Technology/Software	Augmented Reality content for books
266	Hornback	Vehicles/Electrical Vehicles	Diamond frame folding bicycles
267	Malaki	Liquor/Beverages	Non-Alcoholic Beverages
271	nawgati	Services	Congestion Management for Fuel Stations
273	GladFul	Food	Natural High Protein Rich & Healthy Foods
274	Pharmallama	Medical/Health	Simplified pharmacy
277	Hood	Technology/Software	Pseudonymous social network
279	GROWiT	Agriculture	Protective farming products
281	Trunome	Medical/Health	Post Transplant Care
282	Wol3D	Manufacturing	3D printing technology
283	What'sUpWellness	Food	Wellness in the form of quick bites
289	funngro	Technology/Software	Smart Teens work with Smart companies
290	Aadvik	Food	Buy Camel & Goat Milk
292	HealthyMaster	Food	Online Dry Fruits, Snacks, Berries, Chips
294	LondonBubble	Food	Waffle Chips Online
296	NutriCook	Food	Smart Pots, Air Fryers, Air Fryer Oven
297	Subhag	Medical/Health	Health-tech IUI Treatment Procedure for Infert...
298	SinghStyled	Beauty/Fashion	Sikh Gentleman to maintain their Guru-gifted i...

	Startup Name	Industry	Business Description
300	ThePlatedProject	Services	Decor Plates & Dinnerware
304	SoulUp	Services	Real Conversations Real People
306	Rubans	Beauty/Fashion	Artificial Jewellery Set Online
309	LilGoodness	Food	Healthy Snacks
310	ForeverModest	Beauty/Fashion	premium Muslim women's clothing
311	Sahayatha	Medical/Health	smart wheelchair with an assistive cleansing d...
313	maisha	Beauty/Fashion	Handmade Cotton & Jacquard Bags
314	NishHair	Beauty/Fashion	100% Human Hair Extensions
317	TAC	Beauty/Fashion	ayurveda co for glowing skin, makeup & open pores
318	Naara-Aaba	Liquor/Beverages	pears and plum wine
319	StyloBug	Beauty/Fashion	Girls Dresses Online

## How many deals were finalized in both season in seen pitches

```
In [134]: sns.countplot(x="Season Number", data=episodes, palette="muted", hue=
```



Insight:

- in season 1 - more deals were accepted than rejected
- in season 2 - more deals were accepted than rejected

## how many offers were rejected

```
In [135...]: len(df[df["Received Offer"]!=df["Accepted Offer"]])
```

```
Out[135]: 40
```

## Detail of offer rejected

```
In [136...]: df[df["Received Offer"]!=df["Accepted Offer"]]
```

Out[136]:

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	Startup
6	1	20-Dec-21	04-Feb-22	3	Aam Aadmi Ke Business Ideas	7	qZer
19	1	20-Dec-21	04-Feb-22	7	A Never Give Up Spirit	20	
21	1	20-Dec-21	04-Feb-22	7	A Never Give Up Spirit	22	LaK
27	1	20-Dec-21	04-Feb-22	9	Defining Innovations	28	KabiraHa
41	1	20-Dec-21	04-Feb-22	14	Naye Aur Nayab Pitchers	42	MorrikoPur
55	1	20-Dec-21	04-Feb-22	18	Investing In Profitable Businesses	56	IndiaHemj
60	1	20-Dec-21	04-Feb-22	19	Forming An Idea And Bagging A Deal	61	Ke
70	1	20-Dec-21	04-Feb-22	22	Turning Ideas Into Businesses	71	Mo
71	1	20-Dec-21	04-Feb-22	22	Turning Ideas Into Businesses	72	
73	1	20-Dec-21	04-Feb-22	23	Investing In Innovation	74	Urbanl
74	1	20-Dec-21	04-Feb-22	23	Investing In Innovation	75	Guardia
81	1	20-Dec-21	04-Feb-22	25	An Ocean Of Opportunities	82	
87	1	20-Dec-21	04-Feb-22	27	Investing In The Future Of India	88	AlisteTechr
93	1	20-Dec-21	04-Feb-22	29	Businesses Of Tomorrow	94	PDI
94	1	20-Dec-21	04-Feb-22	29	Businesses Of Tomorrow	95	Pla
104	1	20-Dec-21	04-Feb-22	32	The Road To Success	105	Experi
106	1	20-Dec-21	04-Feb-22	32	The Road To Success	107	C3Mi

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	Startup Name
113	1	20-Dec-21	04-Feb-22	34	Scaling Ambitions	114	Greer
116	1	20-Dec-21	04-Feb-22	35	The Final Destination	117	
119	1	20-Dec-21	04-Feb-22	36	Gateway To Shark Tank India	120	Frenc
121	1	20-Dec-21	04-Feb-22	36	Gateway To Shark Tank India	122	D
131	1	20-Dec-21	04-Feb-22	0	Unseen	132	S
135	1	20-Dec-21	04-Feb-22	0	Unseen	136	Urb
138	1	20-Dec-21	04-Feb-22	0	Unseen	139	
149	1	20-Dec-21	04-Feb-22	0	Unseen	150	A
151	1	20-Dec-21	04-Feb-22	0	Unseen	152	
158	2	02-Jan-23	10-Mar-23	3	Thrilling and Thunderous Pitches	159	ATMO
165	2	02-Jan-23	10-Mar-23	5	Investing in the Future of India	166	Fl
189	2	02-Jan-23	10-Mar-23	13	Up And Coming Business Ideas	190	I
199	2	02-Jan-23	10-Mar-23	17	Innovation Hardwork And Diligence	200	Avime
206	2	02-Jan-23	10-Mar-23	19	Building Brands For India	207	
212	2	02-Jan-23	10-Mar-23	21	Adhbhut Aur Anokhe Entrepreneurs	213	CheeseCa
215	2	02-Jan-23	10-Mar-23	21	Adhbhut Aur Anokhe Entrepreneurs	216	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	Startup
229	2	02-Jan-23	10-Mar-23	26	Bharat Badal Raha Hai	230	Ga
233	2	02-Jan-23	10-Mar-23	27	Nayi Soch Nayi Vichaar	234	Hob
237	2	02-Jan-23	10-Mar-23	28	Game Changers	238	D
245	2	02-Jan-23	10-Mar-23	31	Innovations And Investments	246	
256	2	02-Jan-23	10-Mar-23	34	Growing Ideas Into Successful Businesses	257	MidNightAng
278	2	02-Jan-23	10-Mar-23	40	Creating Valuable Businesses	279	Twisting
316	2	02-Jan-23	10-Mar-23	51	Gateway To Shark Tank India	317	

**Find the highest deal amount that were accepted**

In [137]: df\_ac["Total Deal Amount"].max()

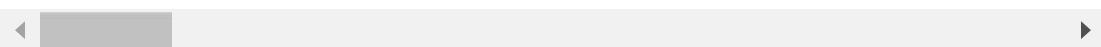
Out[137]: 200.0

**Details of highest deal amount**

In [138]: df\_ac[df\_ac["Total Deal Amount"]==df["Total Deal Amount"].max()]

Out[138]:

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	Startup Name
230	2	02-Jan-23	10-Mar-23	26	Bharat Badal Raha Hai	231	UnStop
258	2	02-Jan-23	10-Mar-23	35	Business Ideas Ka Pitara	259	MeduLance
274	2	02-Jan-23	10-Mar-23	39	Revolutionary Ideas And Successful Businesses	275	Pharmallama



## Find the lowest deal amount that were accepted

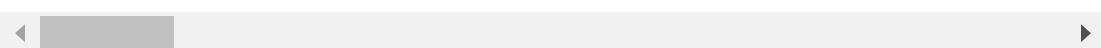
In [139]: df\_ac["Total Deal Amount"].min()

Out[139]: 0.0

In [140]: df\_ac[df\_ac["Total Deal Amount"]==df\_ac["Total Deal Amount"].min()]

Out[140]:

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	Startup Name
243	2	02-Jan-23	10-Mar-23	30	Changing India	244	DhruvVid�ut Veh



since 0 rs in deal amount shows not an invalid entry this was case for the pitchers who demanded 100 hours from sharks for 0.5% equity.

In [141]: x=df\_ac[df\_ac["Total Deal Amount"]!=0]  
x

Out[141]:

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
0	1	20-Dec-21	04-Feb-22	1	Badlegi Business Ki Tasveer	1	
1	1	20-Dec-21	04-Feb-22	1	Badlegi Business Ki Tasveer	2	
2	1	20-Dec-21	04-Feb-22	1	Badlegi Business Ki Tasveer	3	Heal
3	1	20-Dec-21	04-Feb-22	2	Insaan, Ideas Aur Sapne	4	
7	1	20-Dec-21	04-Feb-22	3	Aam Aadmi Ke Business Ideas	8	
8	1	20-Dec-21	04-Feb-22	3	Aam Aadmi Ke Business Ideas	9	
9	1	20-Dec-21	04-Feb-22	4	Entrepreneurship Ki Wave	10	
10	1	20-Dec-21	04-Feb-22	4	Entrepreneurship Ki Wave	11	
11	1	20-Dec-21	04-Feb-22	4	Entrepreneurship Ki Wave	12	
12	1	20-Dec-21	04-Feb-22	5	Hunt For Interesting Business	13	
15	1	20-Dec-21	04-Feb-22	6	New Week, New Ideas	16	
16	1	20-Dec-21	04-Feb-22	6	New Week, New Ideas	17	
18	1	20-Dec-21	04-Feb-22	7	A Never Give Up Spirit	19	Rai
20	1	20-Dec-21	04-Feb-22	7	A Never Give Up Spirit	21	
22	1	20-Dec-21	04-Feb-22	8	Shark Ko Impress Karne Wale Ideas	23	
23	1	20-Dec-21	04-Feb-22	8	Shark Ko Impress Karne Wale Ideas	24	Viva
24	1	20-Dec-21	04-Feb-22	8	Shark Ko Impress Karne Wale Ideas	25	
25	1	20-Dec-21	04-Feb-22	9	Defining Innovations	26	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
	<b>26</b>	1 20-Dec-21	04-Feb-22	9	Defining Innovations	27	
	<b>28</b>	1 20-Dec-21	04-Feb-22	10	Passion About Entrepreneurship	29	
	<b>29</b>	1 20-Dec-21	04-Feb-22	10	Passion About Entrepreneurship	30	
	<b>30</b>	1 20-Dec-21	04-Feb-22	10	Passion About Entrepreneurship	31	
	<b>32</b>	1 20-Dec-21	04-Feb-22	11	Investment Paane Ka Sapna	33	ARRCOATS
	<b>33</b>	1 20-Dec-21	04-Feb-22	11	Investment Paane Ka Sapna	34	
	<b>34</b>	1 20-Dec-21	04-Feb-22	12	Ek Idea Aur Uske Do Sides	35	
	<b>36</b>	1 20-Dec-21	04-Feb-22	12	Ek Idea Aur Uske Do Sides	37	
	<b>37</b>	1 20-Dec-21	04-Feb-22	13	Ideas By Young Entrepreneurs	38	
	<b>38</b>	1 20-Dec-21	04-Feb-22	13	Ideas By Young Entrepreneurs	39	
	<b>39</b>	1 20-Dec-21	04-Feb-22	13	Ideas By Young Entrepreneurs	40	
	<b>40</b>	1 20-Dec-21	04-Feb-22	14	Naye Aur Nayab Pitchers	41	TI
	<b>43</b>	1 20-Dec-21	04-Feb-22	15	It's Time To Change	44	Ha
	<b>44</b>	1 20-Dec-21	04-Feb-22	15	It's Time To Change	45	
	<b>45</b>	1 20-Dec-21	04-Feb-22	15	It's Time To Change	46	
	<b>46</b>	1 20-Dec-21	04-Feb-22	16	Winning The Sharks Trust	47	
	<b>48</b>	1 20-Dec-21	04-Feb-22	16	Winning The Sharks Trust	49	
	<b>49</b>	1 20-Dec-21	04-Feb-22	16	Winning The Sharks Trust	50	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number		
	50	1	20-Dec-21	04-Feb-22	17	A Wave Of Startups	51	Find
	51	1	20-Dec-21	04-Feb-22	17	A Wave Of Startups	52	
	53	1	20-Dec-21	04-Feb-22	17	A Wave Of Startups	54	
	56	1	20-Dec-21	04-Feb-22	18	Investing In Profitable Businesses	57	
	59	1	20-Dec-21	04-Feb-22	19	Forming An Idea And Bagging A Deal	60	
	62	1	20-Dec-21	04-Feb-22	20	A Variety Of Ideas	63	
	64	1	20-Dec-21	04-Feb-22	20	A Variety Of Ideas	65	
	65	1	20-Dec-21	04-Feb-22	21	Game-changing Ideas	66	
	66	1	20-Dec-21	04-Feb-22	21	Game-changing Ideas	67	
	67	1	20-Dec-21	04-Feb-22	21	Game-changing Ideas	68	T
	68	1	20-Dec-21	04-Feb-22	22	Turning Ideas Into Businesses	69	
	72	1	20-Dec-21	04-Feb-22	23	Investing In Innovation	73	
	76	1	20-Dec-21	04-Feb-22	24	A Decade Of Indian Entrepreneurship	77	
	77	1	20-Dec-21	04-Feb-22	24	A Decade Of Indian Entrepreneurship	78	
	79	1	20-Dec-21	04-Feb-22	25	An Ocean Of Opportunities	80	
	80	1	20-Dec-21	04-Feb-22	25	An Ocean Of Opportunities	81	Sunfc
	82	1	20-Dec-21	04-Feb-22	26	Revolutionary Ideas	83	
	84	1	20-Dec-21	04-Feb-22	26	Revolutionary Ideas	85	
	86	1	20-Dec-21	04-Feb-22	27	Investing In The Future Of India	87	Watt

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number		
	88	1	20-Dec-21	04-Feb-22	27	Investing In The Future Of India	89	Insurance
	89	1	20-Dec-21	04-Feb-22	28	Meeting The New India Minds	90	
	91	1	20-Dec-21	04-Feb-22	28	Meeting The New India Minds	92	Gold
	92	1	20-Dec-21	04-Feb-22	29	Businesses Of Tomorrow	93	
	96	1	20-Dec-21	04-Feb-22	30	Sharks Ki Expertise	97	
	101	1	20-Dec-21	04-Feb-22	31	Entrepreneurship Ki Raah	102	
	105	1	20-Dec-21	04-Feb-22	32	The Road To Success	106	
	107	1	20-Dec-21	04-Feb-22	33	Life-Changing Ideas	108	Colour
	109	1	20-Dec-21	04-Feb-22	33	Life-Changing Ideas	110	
	110	1	20-Dec-21	04-Feb-22	33	Life-Changing Ideas	111	
	111	1	20-Dec-21	04-Feb-22	34	Scaling Ambitions	112	Nom
	115	1	20-Dec-21	04-Feb-22	35	The Final Destination	116	
	118	1	20-Dec-21	04-Feb-22	36	Gateway To Shark Tank India	119	
	120	1	20-Dec-21	04-Feb-22	36	Gateway To Shark Tank India	121	
	122	1	20-Dec-21	04-Feb-22	0	Unseen	123	
	152	2	02-Jan-23	10-Mar-23	1	Entrepreneurship Ki Leher Ek Baar Firse	153	
	153	2	02-Jan-23	10-Mar-23	1	Entrepreneurship Ki Leher Ek Baar Firse	154	
	155	2	02-Jan-23	10-Mar-23	2	A Bigger Vision	156	Ve
	156	2	02-Jan-23	10-Mar-23	2	A Bigger Vision	157	Watch
	157	2	02-Jan-23	10-Mar-23	2	A Bigger Vision	158	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
159	2	02-Jan-23	10-Mar-23	3	Thrilling and Thunderous Pitches	160	
160	2	02-Jan-23	10-Mar-23	3	Thrilling and Thunderous Pitches	161	
161	2	02-Jan-23	10-Mar-23	4	Ideas Meets Opportunity	162	Ge
162	2	02-Jan-23	10-Mar-23	4	Ideas Meets Opportunity	163	
163	2	02-Jan-23	10-Mar-23	4	Ideas Meets Opportunity	164	
164	2	02-Jan-23	10-Mar-23	5	Investing in the Future of India	165	
167	2	02-Jan-23	10-Mar-23	6	Determined Entrepreneurs	168	
168	2	02-Jan-23	10-Mar-23	6	Determined Entrepreneurs	169	
171	2	02-Jan-23	10-Mar-23	7	Shaandar Businesses	172	T
172	2	02-Jan-23	10-Mar-23	7	Shaandar Businesses	173	
173	2	02-Jan-23	10-Mar-23	8	Investment with Intent	174	Atyp
174	2	02-Jan-23	10-Mar-23	8	Investment with Intent	175	Hous
176	2	02-Jan-23	10-Mar-23	9	Invest In Lifestyle	177	
177	2	02-Jan-23	10-Mar-23	9	Invest In Lifestyle	178	
178	2	02-Jan-23	10-Mar-23	10	Zillionaire Banne Ki Chah	179	
180	2	02-Jan-23	10-Mar-23	10	Zillionaire Banne Ki Chah	181	

Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
181	2 02-Jan-23	10-Mar-23	11	Investing The Right Way	182	ABCs
182	2 02-Jan-23	10-Mar-23	11	Investing The Right Way	183	
183	2 02-Jan-23	10-Mar-23	11	Investing The Right Way	184	
184	2 02-Jan-23	10-Mar-23	12	Pitchers Ki Undying Spirit	185	
185	2 02-Jan-23	10-Mar-23	12	Pitchers Ki Undying Spirit	186	
187	2 02-Jan-23	10-Mar-23	13	Up And Coming Business Ideas	188	
188	2 02-Jan-23	10-Mar-23	13	Up And Coming Business Ideas	189	
190	2 02-Jan-23	10-Mar-23	14	Investment Worthy Ideas	191	
191	2 02-Jan-23	10-Mar-23	14	Investment Worthy Ideas	192	
193	2 02-Jan-23	10-Mar-23	15	Changing The Face Of Indian Entrepreneurship	194	
194	2 02-Jan-23	10-Mar-23	15	Changing The Face Of Indian Entrepreneurship	195	
195	2 02-Jan-23	10-Mar-23	15	Changing The Face Of Indian Entrepreneurship	196	
196	2 02-Jan-23	10-Mar-23	16	Pitchers Ki Taiyyari	197	
197	2 02-Jan-23	10-Mar-23	16	Pitchers Ki Taiyyari	198	
198	2 02-Jan-23	10-Mar-23	16	Pitchers Ki Taiyyari	199	
201	2 02-Jan-23	10-Mar-23	17	Innovation Hardwork And Diligence	202	
202	2 02-Jan-23	10-Mar-23	18	Business Ideas With Potential	203	
203	2 02-Jan-23	10-Mar-23	18	Business Ideas With Potential	204	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
	<b>204</b>	2	02-Jan-23	10-Mar-23	18	Business Ideas With Potential	205
	<b>207</b>	2	02-Jan-23	10-Mar-23	19	Building Brands For India	208
	<b>208</b>	2	02-Jan-23	10-Mar-23	19	Building Brands For India	209
	<b>209</b>	2	02-Jan-23	10-Mar-23	20	Nurturing Indian Entrepreneurs	210
	<b>210</b>	2	02-Jan-23	10-Mar-23	20	Nurturing Indian Entrepreneurs	211
	<b>213</b>	2	02-Jan-23	10-Mar-23	21	Adhbbut Aur Anokhe Entrepreneurs	214
	<b>216</b>	2	02-Jan-23	10-Mar-23	22	Making Big Businesses	217
	<b>217</b>	2	02-Jan-23	10-Mar-23	22	Making Big Businesses	218
	<b>218</b>	2	02-Jan-23	10-Mar-23	22	Making Big Businesses	219
	<b>219</b>	2	02-Jan-23	10-Mar-23	23	Changing The World	220
	<b>220</b>	2	02-Jan-23	10-Mar-23	23	Changing The World	221
	<b>221</b>	2	02-Jan-23	10-Mar-23	23	Changing The World	222
	<b>223</b>	2	02-Jan-23	10-Mar-23	24	India Ke Incredible Entrepreneurs	224
	<b>224</b>	2	02-Jan-23	10-Mar-23	24	India Ke Incredible Entrepreneurs	225
	<b>226</b>	2	02-Jan-23	10-Mar-23	25	Badhta India	227
	<b>227</b>	2	02-Jan-23	10-Mar-23	25	Badhta India	228
	<b>228</b>	2	02-Jan-23	10-Mar-23	25	Badhta India	229
	<b>230</b>	2	02-Jan-23	10-Mar-23	26	Bharat Badal Raha Hai	231

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
	231	2	02-Jan-23	10-Mar-23	26	Bharat Badal Raha Hai	232
	232	2	02-Jan-23	10-Mar-23	27	Nayi Soch Naye Vichaar	233
	236	2	02-Jan-23	10-Mar-23	28	Game Changers	237
	238	2	02-Jan-23	10-Mar-23	28	Game Changers	239
	239	2	02-Jan-23	10-Mar-23	29	Pulse Of The Country	240
	240	2	02-Jan-23	10-Mar-23	29	Pulse Of The Country	241
	242	2	02-Jan-23	10-Mar-23	30	Changing India	243
	246	2	02-Jan-23	10-Mar-23	31	Innovations And Investments	247
	248	2	02-Jan-23	10-Mar-23	32	Pitch Perfect	249
	249	2	02-Jan-23	10-Mar-23	32	Pitch Perfect	250
	250	2	02-Jan-23	10-Mar-23	32	Pitch Perfect	251
	252	2	02-Jan-23	10-Mar-23	33	Growing With India	253
	253	2	02-Jan-23	10-Mar-23	33	Growing With India	254
	254	2	02-Jan-23	10-Mar-23	33	Growing With India	255
	255	2	02-Jan-23	10-Mar-23	34	Growing Ideas Into Successful Businesses	256
	257	2	02-Jan-23	10-Mar-23	34	Growing Ideas Into Successful Businesses	258

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
258	2	02-Jan-23	10-Mar-23	35	Business Ideas Ka Pitara	259	
259	2	02-Jan-23	10-Mar-23	35	Business Ideas Ka Pitara	260	
262	2	02-Jan-23	10-Mar-23	36	Anokhe Pitchers Ke Anokhe Ideas	263	
264	2	02-Jan-23	10-Mar-23	36	Anokhe Pitchers Ke Anokhe Ideas	265	
266	2	02-Jan-23	10-Mar-23	37	Bharat Ka Kal	267	
267	2	02-Jan-23	10-Mar-23	37	Bharat Ka Kal	268	
271	2	02-Jan-23	10-Mar-23	38	Innovation And Imagination	272	
273	2	02-Jan-23	10-Mar-23	39	Revolutionary Ideas And Successful Businesses	274	
274	2	02-Jan-23	10-Mar-23	39	Revolutionary Ideas And Successful Businesses	275	
277	2	02-Jan-23	10-Mar-23	40	Creating Valuable Businesses	278	
279	2	02-Jan-23	10-Mar-23	40	Creating Valuable Businesses	280	
281	2	02-Jan-23	10-Mar-23	41	Out Of The Box Business Ideas	282	
282	2	02-Jan-23	10-Mar-23	41	Out Of The Box Business Ideas	283	
283	2	02-Jan-23	10-Mar-23	41	Out Of The Box Business Ideas	284	What
289	2	02-Jan-23	10-Mar-23	43	Creating Value Through Ideas	290	

	Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
	<b>290</b>	2	02-Jan-23	10-Mar-23	43	Creating Value Through Ideas	291
	<b>292</b>	2	02-Jan-23	10-Mar-23	44	Entrepreneurship Ka Junoon	293
	<b>294</b>	2	02-Jan-23	10-Mar-23	44	Entrepreneurship Ka Junoon	295
	<b>296</b>	2	02-Jan-23	10-Mar-23	45	True Meaning Of Entrepreneurship	297
	<b>297</b>	2	02-Jan-23	10-Mar-23	45	True Meaning Of Entrepreneurship	298
	<b>298</b>	2	02-Jan-23	10-Mar-23	45	True Meaning Of Entrepreneurship	299
	<b>300</b>	2	02-Jan-23	10-Mar-23	46	Different Colours Of Entrepreneurship	301
	<b>304</b>	2	02-Jan-23	10-Mar-23	47	Tunnel Se Tank Tak Ka Safar	305
	<b>306</b>	2	02-Jan-23	10-Mar-23	48	Pitchers, Investments And Businesses	307
	<b>309</b>	2	02-Jan-23	10-Mar-23	48	Pitchers, Investments And Businesses	310
	<b>310</b>	2	02-Jan-23	10-Mar-23	49	Businesses Adding Value To Society	311
	<b>311</b>	2	02-Jan-23	10-Mar-23	49	Businesses Adding Value To Society	312
	<b>313</b>	2	02-Jan-23	10-Mar-23	49	Businesses Adding Value To Society	314
	<b>314</b>	2	02-Jan-23	10-Mar-23	50	Season Finale With The Sharks	315
	<b>317</b>	2	02-Jan-23	10-Mar-23	51	Gateway To Shark Tank India	318

Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	
318	2	02-Jan-23	10-Mar-23	51	Gateway To Shark Tank India	319
319	2	02-Jan-23	10-Mar-23	51	Gateway To Shark Tank India	320

In [142...]: `x[x["Total Deal Amount"]==x["Total Deal Amount"].min()]`

Out[142]:

Season Number	Season Start	Season End	Episode Number	Episode Title	Pitch Number	Startup Name	Industry	
45	1	20-Dec-21	04-Feb-22	15	It's Time To Change	46	Cocofit	Food

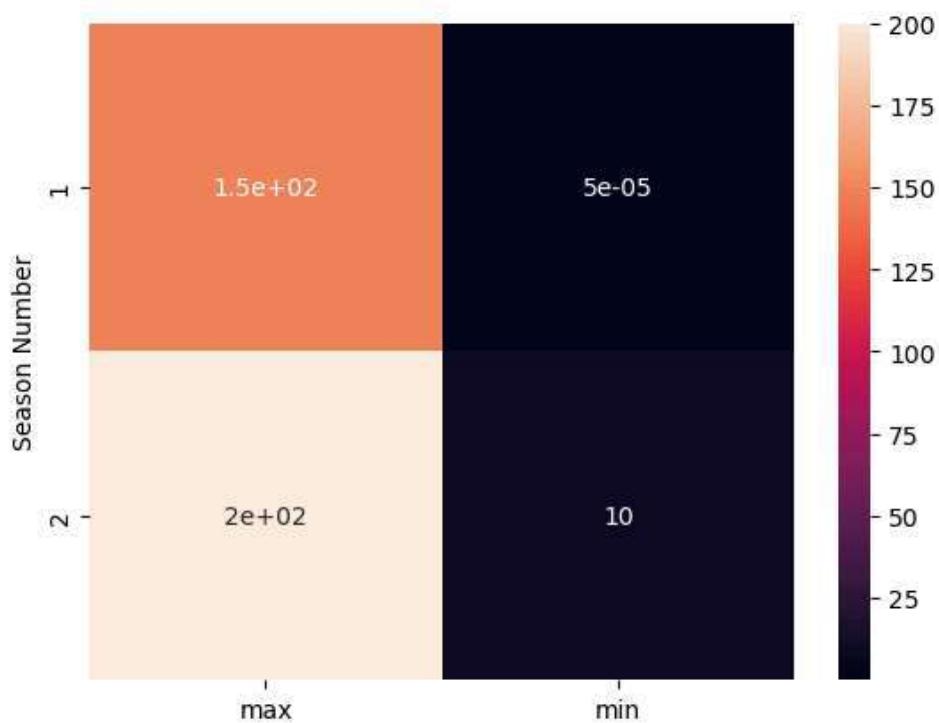
now find the min deal amount that had been accepted

In [143...]: `x["Total Deal Amount"].min()`

Out[143]: `5e-05`

min and max deal amount accpted by sharks of both season

In [144...]: `sns.heatmap(x.groupby(["Season Number"])["Total Deal Amount"].agg(`



**most dealing episode of both season**

**Find most dealing episodes of both the season**

```
In [145]: best_episodes=df_ac.groupby(["Season Number", 'Episode Number'])['A
```

```
In [146]: best_episodes.to_frame().sort_values(by=["Season Number", "Accepted
```

Out[146]:

**Accepted Offer**

Season Number	Episode Number
2	2
	3
4	3
11	3
15	3
16	3
18	3
22	3
23	3
25	3
32	3
33	3
41	3
45	3
49	3
51	3
1	2
3	2
6	2
7	2
8	2
9	2
10	2
12	2
13	2
14	2
19	2
20	2
24	2
26	2
28	2
29	2
30	2
34	2
35	2
36	2

**Accepted Offer**

Season Number	Episode Number	
	37	2
	39	2
	40	2
	43	2
	44	2
	48	2
	5	1
	17	1
	21	1
	27	1
	31	1
	38	1
	46	1
	47	1
	50	1
1	1	3
	4	3
	8	3
	10	3
	13	3
	15	3
	16	3
	17	3
	21	3
	33	3
	3	2
	6	2
	7	2
	9	2
	11	2
	12	2
	20	2
	24	2
	25	2
	26	2

**Accepted Offer****Season Number Episode Number**

27	2
28	2
36	2
0	1
2	1
5	1
14	1
18	1
19	1
22	1
23	1
29	1
30	1
31	1
32	1
34	1
35	1

**Find the most liking episodes**

In [147]: df\_ac.groupby(["Season Number", "Episode Number"])["Number of shark"]

Out[147]:

**Number of sharks in deal**

Season Number	Episode Number	Number of sharks in deal
2	20	5.0
	29	5.0
	39	5.0
	49	5.0
	6	4.0
	13	4.0
	23	4.0
	26	4.0
	41	4.0
	1	3.0
	3	3.0
	22	3.0
	24	3.0
	30	3.0
	34	3.0
	35	3.0
	46	3.0
	48	3.0
	2	2.0
	4	2.0
	5	2.0
	7	2.0
	8	2.0
	9	2.0
	11	2.0
	14	2.0
	15	2.0
	16	2.0
	17	2.0
	19	2.0
	28	2.0
	33	2.0
	36	2.0
	37	2.0
	38	2.0

**Number of sharks in deal**

<b>Season Number</b>	<b>Episode Number</b>	
	<b>40</b>	2.0
	<b>43</b>	2.0
	<b>51</b>	2.0
	<b>10</b>	1.0
	<b>12</b>	1.0
	<b>18</b>	1.0
	<b>21</b>	1.0
	<b>25</b>	1.0
	<b>27</b>	1.0
	<b>31</b>	1.0
	<b>32</b>	1.0
	<b>44</b>	1.0
	<b>45</b>	1.0
	<b>47</b>	1.0
	<b>50</b>	1.0
<b>1</b>	<b>6</b>	5.0
	<b>17</b>	5.0
	<b>20</b>	5.0
	<b>25</b>	5.0
	<b>13</b>	4.0
	<b>19</b>	4.0
	<b>27</b>	4.0
	<b>34</b>	4.0
	<b>35</b>	4.0
	<b>1</b>	3.0
	<b>10</b>	3.0
	<b>12</b>	3.0
	<b>15</b>	3.0
	<b>21</b>	3.0
	<b>22</b>	3.0
	<b>28</b>	3.0
	<b>29</b>	3.0
	<b>33</b>	3.0
	<b>36</b>	3.0
	<b>0</b>	2.0

**Number of sharks in deal**

Season Number	Episode Number	Number of sharks in deal
4	2.0	2.0
5	2.0	2.0
7	2.0	2.0
8	2.0	2.0
9	2.0	2.0
11	2.0	2.0
14	2.0	2.0
16	2.0	2.0
24	2.0	2.0
30	2.0	2.0
2	1.0	1.0
3	1.0	1.0
18	1.0	1.0
23	1.0	1.0
26	1.0	1.0
31	1.0	1.0
32	1.0	1.0

```
In [148]: expensive_episodes=df_ac.groupby(['Season Number','Episode Number'])  
expensive_episodes
```

Out[148]:	Season Number	Episode Number	Total Deal Amount
56	2	20	300.00000
77	2	41	290.00000
62	2	26	250.00000
75	2	39	250.00000
58	2	22	225.00000
71	2	35	225.00000
51	2	15	222.00000
86	2	51	211.00000
38	2	2	200.00000
40	2	4	175.00000
54	2	18	175.00000
60	2	24	175.00000
61	2	25	175.00000
39	2	3	170.00000
48	2	12	160.00000
52	2	16	159.00000
59	2	23	155.00000
42	2	6	150.00000
83	2	48	150.00000
47	2	11	145.00000
55	2	19	145.00000
72	2	36	145.00000
64	2	28	140.00000
65	2	29	136.00000
37	2	1	130.00000
70	2	34	130.00000
84	2	49	130.00000
50	2	14	126.00000
46	2	10	125.00000
79	2	44	125.00000
80	2	45	120.00000
45	2	9	115.00000
49	2	13	115.00000
68	2	32	110.00000
69	2	33	110.00000
76	2	40	110.00000

Season Number	Episode Number	Total Deal Amount
44	2	8
41	2	5
63	2	27
73	2	37
85	2	50
66	2	30
43	2	7
81	2	46
74	2	38
78	2	43
82	2	47
67	2	31
53	2	17
57	2	21
17	1	17
13	1	13
33	1	33
4	1	4
16	1	16
21	1	21
6	1	6
25	1	25
28	1	28
1	1	1
20	1	20
8	1	8
15	1	15
12	1	12
26	1	26
7	1	7
27	1	27
5	1	5
9	1	9
14	1	14
3	1	3
10	1	10

Season Number	Episode Number	Total Deal Amount
11	1	11
30	1	30
29	1	29
31	1	31
36	1	36
2	1	2
0	1	0
19	1	19
22	1	22
24	1	24
23	1	23
32	1	32
34	1	34
35	1	35
18	1	18
		1.00000

## most expensive episode :

Episode 20 of season 2

Episode 17 of season 1

## least expensive episode :

Episode 21 of season 2

Episode 18 of season 1

## How many sharks participated in this show and What were their names ?

In [149...]

```
sharks_names=[]

for i in df.columns[35:-5:3]:
    sharks=i.split(maxsplit=1)
    #print(sharks)
    #print(sharks[0])
    sharks_names.append(sharks[0])
print(len(sharks_names), " sharks participated \n")
print("following are the names \n\n",sharks_names)
```

8 sharks participated

following are the names

```
['Ashneer', 'Namita', 'Anupam', 'Vineeta', 'Aman', 'Peyush', 'Ghazal', 'Amit']
```

# How many sharks participated in each season

## For season 1

```
In [150...]: df_1=df[df["Season Number"]==1] ## df_1 for season 1
for i in df.columns[35:-5:3]:
    if df_1[i].sum()==0:
        print(i.split(maxsplit=1)[0],"did not participate in season 1")
    else:
        print(i.split(maxsplit=1)[0],"participated in season 1\n")
```

Ashneer participated in season 1

Namita participated in season 1

Anupam participated in season 1

Vineeta participated in season 1

Aman participated in season 1

Peyush participated in season 1

Ghazal participated in season 1

Amit did not participate in season 1

## For season 2

```
In [151...]: df_2=df[df["Season Number"]==2] ## df_2 for season 2
for i in df.columns[35:-4:3]:
    if df_2[i].sum()==0:
        print(i.split(maxsplit=1)[0],"did not participate in season 2")
    else:
        print(i.split(maxsplit=1)[0],"participated in season 2\n")
```

Ashneer did not participate in season 2

Namita participated in season 2

Anupam participated in season 2

Vineeta participated in season 2

Aman participated in season 2

Peyush participated in season 2

Ghazal did not participate in season 2

Amit participated in season 2

Guest participated in season 2

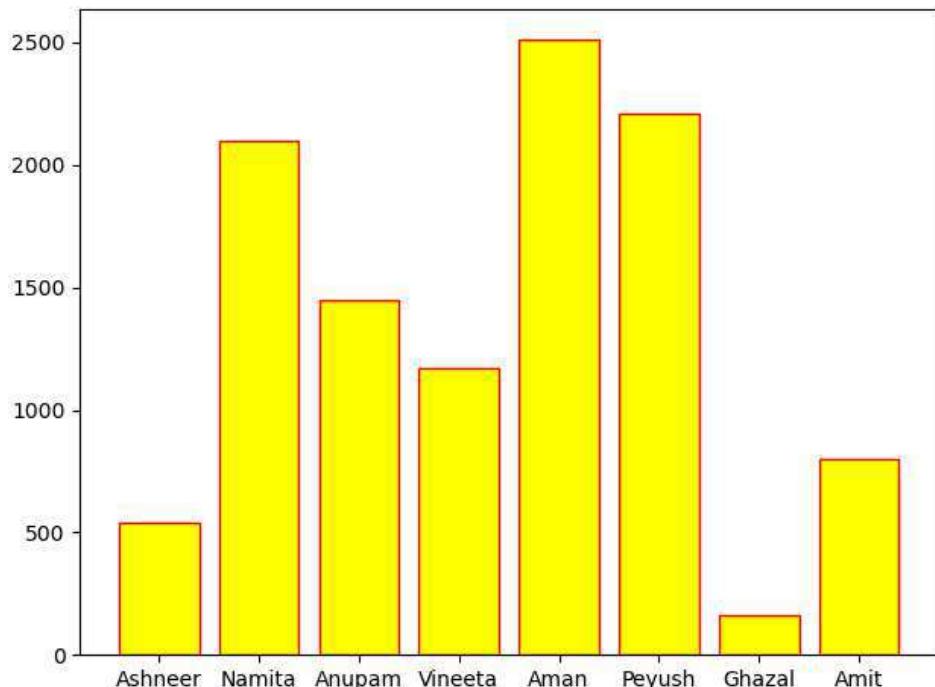
# How much total amount each investors/sharks invested in the the

## deals?

```
In [152...]  
l=[]  
for i in df.columns[35:-5:3]:  
    s=df[i].sum()  
  
    l.append(s)  
l
```

```
Out[152]:  
[539.3299999999999,  
 2097.5102685,  
 1451.160268499998,  
 1170.6,  
 2510.040016,  
 2210.3802525,  
 159.9902525,  
 800.91]
```

```
In [153...]  
plt.bar(sharks_names,l,color="yellow",edgecolor="red")  
plt.tight_layout()
```



- Aman invested the highest amount in the show
- Ghazal invested the least amount in the show

**How much total amount each investors/sharks invested in the deals in each season?**

```
In [154...]  
l_1=[]  
for i in df_1.columns[35:-5:3]: ## df_1 for season 1  
    s=df_1[i].sum()  
  
    l_1.append(s)  
l_1
```

```
Out[154]: [539.3299999999999,
 708.6302685,
 536.3302685,
 363.62,
 896.990016,
 819.6502525,
 159.9902525,
 0.0]
```

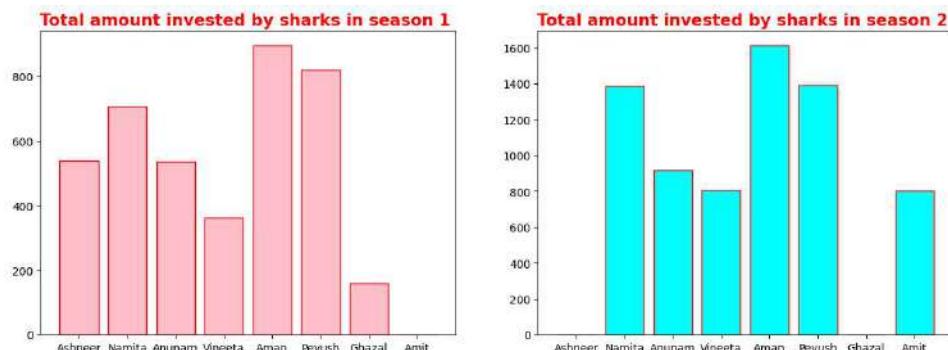
```
In [155... l_2=[]
for i in df_2.columns[35:-5:3]:
    s=df_2[i].sum()

    l_2.append(s)
l_2
```

```
Out[155]: [0.0, 1388.88, 914.829999999999, 806.98, 1613.05, 1390.73, 0.0,
800.91]
```

```
In [156... plt.figure(figsize=(15,5))
plt.subplot(1,2,1)
plt.bar(sharks_names,l_1,color="pink",edgecolor="red")
plt.title("Total amount invested by sharks in season 1 ",fontweight="bold")

plt.subplot(1,2,2)
plt.bar(sharks_names,l_2,color="cyan",edgecolor="red")
plt.title("Total amount invested by sharks in season 2 ",fontweight="bold")
plt.show()
```



**In season 1 Aman invested the highest amount and ghazal invested least , no amount is showing correspond to Amit since Amit did not participate the season 1**

**In season 2 Aman invested the highest amount and Vineeta,Amit invested least , no amount is showing correspond to Ashneer and Ghazal since they did not participate the season 2**

**Aman found to be highest investor**

## How much total equity each investors/sharks gets in the show?

```
In [157... l=[]
for i in df.columns[36:-4:3]:
    s=df[i].sum()
```

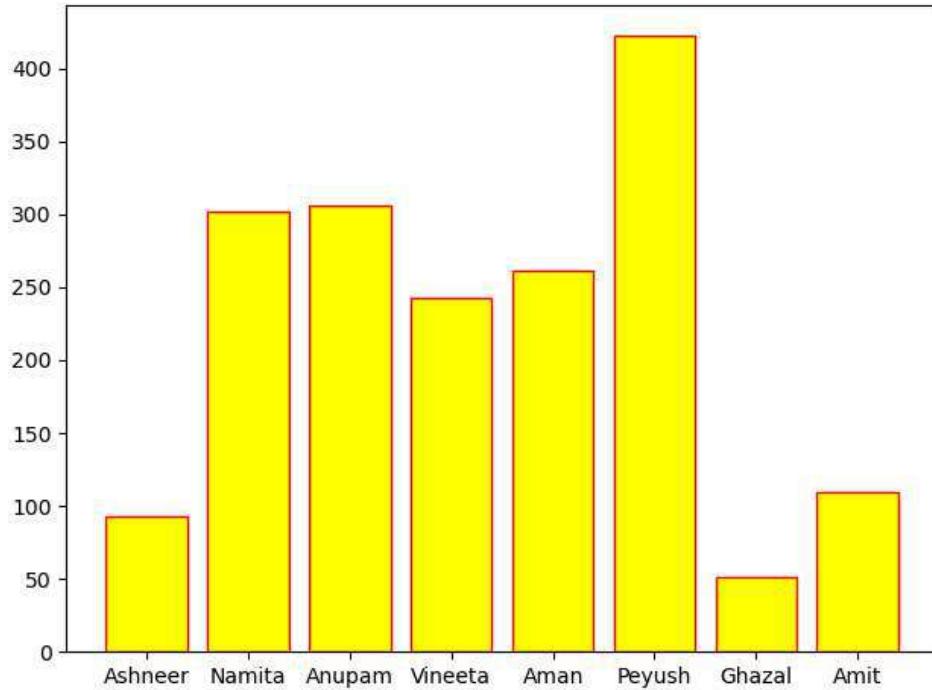
```

1.append(s)
1

Out[157]: [93.24,
 301.59360000000004,
 305.828,
 242.302,
 260.9326,
 422.11400000000003,
 51.7,
 108.9966]

In [158... plt.bar(sharks_names,l,color="yellow",edgecolor="red")
plt.tight_layout()

```



## How much total equity each shark gets in each season

```

In [159... l_1=[]
for i in df_1.columns[36:-4:3]:
    s=df_1[i].sum()

    l_1.append(s)
l_1

Out[159]: [93.24, 143.586, 171.346, 138.34, 169.246, 322.84000000000003, 5
1.7, 0.0]

In [160... l_2=[]
for i in df_2.columns[36:-4:3]:
    s=df_2[i].sum()

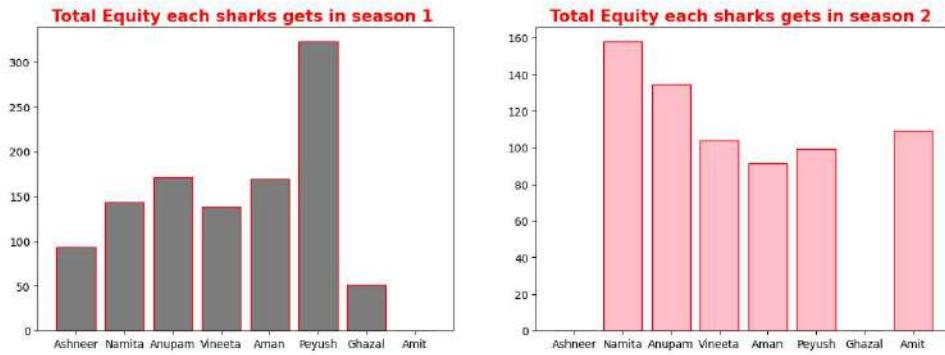
    l_2.append(s)
l_2

Out[160]: [0.0, 158.0076, 134.482, 103.96199999999999, 91.6866, 99.274, 0.
0, 108.9966]

In [161... plt.figure(figsize=(15,5))
plt.subplot(1,2,1)

```

```
plt.bar(sharks_names, l_1,color="grey",edgecolor="red")
plt.title("Total Equity each sharks gets in season 1 ",fontweight="bold")
plt.subplot(1,2,2)
plt.bar(sharks_names,l_2,color="pink",edgecolor="red")
plt.title("Total Equity each sharks gets in season 2 ",fontweight="bold")
plt.show()
```



## Find the most attracted ideas accepted by sharks

In [162]:	df["Number of sharks in deal"].unique()																											
Out[162]:	array([3., 2., 1., 0., 5., 4.])																											
In [163]:	df[df["Number of sharks in deal"]==5][["Startup Name","Business Description"]]																											
Out[163]:	<table border="1"> <thead> <tr> <th></th> <th>Startup Name</th> <th>Business Description</th> </tr> </thead> <tbody> <tr><td>15</td><td>SkipplcePops</td><td>Ice-Pops</td></tr> <tr><td>50</td><td>FindYourKicksIndia</td><td>Sneaker Resale</td></tr> <tr><td>64</td><td>INACAN</td><td>Can Cocktails</td></tr> <tr><td>80</td><td>SunfoxTechnologies</td><td>Portable ECG Device</td></tr> <tr><td>209</td><td>Snitch</td><td>Menswear</td></tr> <tr><td>239</td><td>Mahantam</td><td>Tea Glass Washing Machine</td></tr> <tr><td>274</td><td>Pharmallama</td><td>Simplified pharmacy</td></tr> <tr><td>311</td><td>Sahayatha</td><td>smart wheelchair with an assistive cleansing d...</td></tr> </tbody> </table>		Startup Name	Business Description	15	SkipplcePops	Ice-Pops	50	FindYourKicksIndia	Sneaker Resale	64	INACAN	Can Cocktails	80	SunfoxTechnologies	Portable ECG Device	209	Snitch	Menswear	239	Mahantam	Tea Glass Washing Machine	274	Pharmallama	Simplified pharmacy	311	Sahayatha	smart wheelchair with an assistive cleansing d...
	Startup Name	Business Description																										
15	SkipplcePops	Ice-Pops																										
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311	Sahayatha	smart wheelchair with an assistive cleansing d...																										

## Find how many % entrepreneurs got more,less and same amount in successful deals

```
In [164]:
```

```
print(len(df_ac[df_ac["Total Deal Amount"]>df_ac["Original Ask Amo
print(len(df_ac[df_ac["Total Deal Amount"]<df_ac["Original Ask Amo
print(len(df_ac[df_ac["Total Deal Amount"]==df_ac["Original Ask Amo

13.6363636363635 %entrepreneurs got more amount than they asked
22.15909090909091 % entrepreneurs got less amount than they asked
64.20454545454545 %entrepreneurs got same amount as they asked
```

## Find how many % entrepreneurs got more,less and same amount in successful deals in season 1

```
In [165... df_ac_1=df_1[df_1["Accepted Offer"]==1] ## for season1

In [166... print(len(df_ac_1[df_ac_1["Total Deal Amount"]>df_ac_1["Original A
print(len(df_ac_1[df_ac_1["Total Deal Amount"]<df_ac_1["Original A
print(len(df_ac_1[df_ac_1["Total Deal Amount"]==df_ac_1["Original

18.571428571428573 %entrepreneurs got more amount than they asked
12.857142857142856 % entrepreneurs got less amount than they asked
68.57142857142857 %entrepreneurs got same amount as they asked
```

## Find how many % entrepreneurs got more,less and same amount in successful deals in season 2

```
In [167... df_ac_2=df_2[df_2["Accepted Offer"]==1]

In [168... print(len(df_ac_2[df_ac_2["Total Deal Amount"]>df_ac_2["Original A
print(len(df_ac_2[df_ac_2["Total Deal Amount"]<df_ac_2["Original A
print(len(df_ac_2[df_ac_2["Total Deal Amount"]==df_ac_2["Original

10.377358490566039 %entrepreneurs got more amount than they asked
28.30188679245283 % entrepreneurs got less amount than they asked
61.32075471698113 %entrepreneurs got same amount as they asked
```



Thank You for Reading !

```
In [ ]:
```