```
In [1]:  #import basic python libraries
         import numpy as np
         import pandas as pd
         import warnings
         warnings.filterwarnings('ignore')
```

```
In [2]:  #import yoshops orders dataset
         df=pd.read_excel(r'C:\Users\anith\OneDrive\Documents\orders.xlsx')
```

```
In [3]:  df
```

Out[3]:

	Unnamed: 0	Unnamed: 1	Unnamed: 2	Unnamed: 3	Unnamed: 4	Unnamed: 5	Unnamed: 6
0	Name	Address 1	Adress 2	Adress 3	City	pincode	state
1	SURJEET SINGH KADIAN	695-35 JANTA COLONY	0	0	Rohtak	124001	Haryana
2	LAKSHMI NARAYANAN S	K M B L CEEBROS CENTRE 1ST FLR	39 MONTEITH ROAD EGMORE	0	Chennai	600008	Tamil Nadu
3	TARUN SINHA	C-1052 1ST FLOOR	SUSHANT LOK - I	0	Gurgaon	122001	Haryana
4	AVNISH SRIVASTAVA	Fltno207 208 Dhavalgiri	Neelkanth Vihar Kurla Terminus	Pipeline Rd Ghatkopar E	Mumbai	400077	Maharashtra
...	...	...	...	...	...	...	...
105083	VINEESH M	MOOPPOLI HOUSE P C	PALAM POST NARIKKUNI(VIA)	NEAR A U P SCHOOL P C PALAM	CALICUT	673585	Kerala
105084	YUVARAJULA BALARAJU	P NO 66 H	NO 2-3-660-1 R	NO 1 SAI NAGAR COLONY NAGOLE	HYDERABAD	500039	TELANGANA
105085	GANGADHARA SHANTHI	6-97-2 KANKANADI NEAR GARADI	COMPOUND	0	MANGALORE	575002	Karnataka
105086	SANDHYA SHIRISH KARIA	SIDDHARTH CHAMBERS	LANE-5NORTH MAIN ROAD	K P	PUNE	411001	Maharashtra
105087	VIHA RAJESH KOTIAN (MINOR)	D-201 INDRAPRASTHA TOWER SEC 9	VASANTH NAGARI VASAI E	0	THANE	401208	Maharashtra

105088 rows × 7 columns

```
In [4]:  # fixing the correct columns
         df1=df.rename(columns=df.iloc[0]).loc[1:]
```

```
In [5]:  df1
```

Out[5]:

	Name	Address 1	Adress 2	Adress 3	City	pincode	state
1	SURJEET SINGH KADIAN	695-35 JANTA COLONY	0	0	Rohtak	124001	Haryana
2	LAKSHMI NARAYANAN S	K M B L CEEBROS CENTRE 1ST FLR	39 MONTEITH ROAD EGMORE	0	Chennai	600008	Tamil Nadu
3	TARUN SINHA	C-1052 1ST FLOOR	SUSHANT LOK - I	0	Gurgaon	122001	Haryana
4	AVNISH SRIVASTAVA	Fltno207 208 Dhavalgiri	Neelkanth Vihar Kurla Terminus	Pipeline Rd Ghatkopar E	Mumbai	400077	Maharashtra
5	RISHI KHANDELWAL	OM KOTAK MAHINDRA LIFE INSU CO	7TH FLOOR AMBADEP 14 K G MARG	0	New Delhi	110001	Delhi
...	...	...	...	...	...	...	...
105083	VINEESH M	MOOPPOLI HOUSE P C	PALAM POST NARIKKUNI(VIA)	NEAR A U P SCHOOL P C PALAM	CALICUT	673585	Kerala
105084	YUVARAJULA BALARAJU	P NO 66 H	NO 2-3-660-1 R	NO 1 SAI NAGAR COLONY NAGOLE	HYDERABAD	500039	TELANGANA
105085	GANGADHARA SHANTHI	6-97-2 KANKANADI NEAR GARADI	COMPOUND	0	MANGALORE	575002	Karnataka
105086	SANDHYA SHIRISH KARIA	SIDDHARTH CHAMBERS	LANE-5NORTH MAIN ROAD	K P	PUNE	411001	Maharashtra
105087	VIHA RAJESH KOTIAN (MINOR)	D-201 INDRAPRASTHA TOWER SEC 9	VASANTH NAGARI VASAI E	0	THANE	401208	Maharashtra

105087 rows × 7 columns

```
In [6]:  #import yoshops survey report
         data=pd.read_excel(r'C:\Users\anith\OneDrive\Documents\survey.xlsx')
```

```
In [7]:  data
```

	S.NO	Submitted Time	1. Name	3. Location , City Name	4. Tution for your Kids	5. Study in Class	6. Which Price range for Tution Monthly Fees You like must	7. Laptop and Mobile which Price range you like most	8. Do you like biriyani and which biriyani you like the most	9. What is Price Rang for 1kg Biryani you like must	10. Which Financial products you like most	11. Any IDEA or Suggestions for Yoshops Startup
0	1	24-11-2022	Kavita Israni	No answer	Offline Class room	No answer	Rs.501 to 999	No answer	Veg Biryani | Paneer Tikka Biryani	149 | 199	Mutual Fund SIP (ROI 12%)-1yr	No Answer
1	2	24-11-2022	Kunal Anand	No answer	Offline Class room	No answer	Rs.1 to Rs.499	No answer	Chicken Biryani	149	Company Stock IPO(ROI 15%)-1yr	No Answer
2	3	25-11-2022	Deepak parmal	No answer	Online Zoom meeting	Graduation with Internship	Rs.1 to Rs.499	No answer	Chicken Biryani	99	Yoshops Franchise Investment(ROI 20%)-1yr	Management should be better, I Think If you wo...
3	4	25-11-2022	Nidhi Gupta	No answer	Online Zoom meeting | Offline Class room	LKG to STD 5 | STD 6 to STD 10	Rs.1001 to 1499	No answer	Chicken Biryani	149	Bank FD(Rate of Interest-7%)-1yr	No
4	5	25-11-2022	Rohan Pandey	No answer	Online Zoom meeting	STD 6 to STD 10	Rs.1001 to 1499	No answer	Chicken Biryani	149	Bank FD(Rate of Interest-7%)-1yr	Marketing
...	...	...	...	...	...	...	...	...	...	...	...	...
627	628	17-12-2022	Priya	Morena	Offline Class room	LKG to STD 5 | STD 6 to STD 10	Rs.501 to 999	Rs15000 to Rs.30000	Veg Biryani	199	Post office RD (Rate of Interest-6%)-1yr	I have no experience
628	629	18-12-2022	Pankaj	Delhi	No Answer	Graduation with Internship	Rs.501 to 999 | Rs.1001 to 1499	Rs.31000 to Rs.50000	Veg Biryani	149	No Answer	No
629	630	18-12-2022	Ram	Thirunelveli	Offline Class room	11th and 12th JEE preparation	Rs.501 to 999	Rs15000 to Rs.30000	Mutton Biryani	149	Bank FD(Rate of Interest-7%)-1yr	Good
630	631	18-12-2022	Vijay	Chennai	Online Zoom meeting	Post Graduation with Internship	Rs.501 to 999	Rs.5000 to Rs.15000	Fish Biryani	149	Bank FD(Rate of Interest-7%)-1yr	Great
631	632	18-12-2022	Jeyakumar	Karaikal, Tamilnadu	Online Zoom meeting	Graduation with Internship	Rs.501 to 999	Rs15000 to Rs.30000	Veg Biryani	149	Mutual Fund SIP (ROI 12%)-1yr	Superb

632 rows × 12 columns

```
In [8]: #changing the column name perfectly
        data=data.rename(columns={'1. Name':'Name','3. Location , City Name':'city','4.  Tution for your Kids':'Tution_
```

```
In [9]: data
```

|	S.NO	Submitted Time	Name	city	Tution_for_Kids	Study_in_class	prefer_prices_for__tutions	prefer_prices_for_laptop_and_phone
0	1	24-11-2022	Kavita Israni	No answer	Offline Class room	No answer	Rs.501 to 999	No answer
1	2	24-11-2022	Kunal Anand	No answer	Offline Class room	No answer	Rs.1 to Rs.499	No answer
2	3	25-11-2022	Deepak parmal	No answer	Online Zoom meeting	Graduation with Internship	Rs.1 to Rs.499	No answer
3	4	25-11-2022	Nidhi Gupta	No answer	Online Zoom meeting | Offline Class room	LKG to STD 5 | STD 6 to STD 10	Rs.1001 to 1499	No answer
4	5	25-11-2022	Rohan Pandey	No answer	Online Zoom meeting	STD 6 to STD 10	Rs.1001 to 1499	No answer
...	...	...	...	...	...	...	...	...
627	628	17-12-2022	Priya	Morena	Offline Class room	LKG to STD 5 | STD 6 to STD 10	Rs.501 to 999	Rs15000 to Rs.30000
628	629	18-12-2022	Pankaj	Delhi	No Answer	Graduation with Internship	Rs.501 to 999 | Rs.1001 to 1499	Rs.31000 to Rs.50000
629	630	18-12-2022	Ram	Thirunelveli	Offline Class room	11th and 12th JEE preparation	Rs.501 to 999	Rs15000 to Rs.30000
630	631	18-12-2022	Vijay	Chennai	Online Zoom meeting	Post Graduation with Internship	Rs.501 to 999	Rs.5000 to Rs.15000
631	632	18-12-2022	Jeyakumar	Karaikal, Tamilnadu	Online Zoom meeting	Graduation with Internship	Rs.501 to 999	Rs15000 to Rs.30000

632 rows × 12 columns

In [10]:
```python
data.columns
```

Out[10]:
```
Index(['S.NO', 'Submitted Time', 'Name', 'city', 'Tution_for_Kids',
       'Study_in_class', 'prefer_prices_for__tutions',
       'prefer_prices_for_laptop_and_phone', 'favorite_biryani',
       'price_range_prefer_for_1kg_biryani',
       'which_Financial_products_like_most',
       ' Any_IDEA_or_Suggestions_for_Yoshops_Startup'],
      dtype='object')
```

In [12]:
```python
#datavisualiztion
import matplotlib.pyplot as plt
import seaborn as sns
```

In [13]:
```python
# by observing diagram most of peopel offerd to offline and online tution
plt.figure(figsize=(20,20))
sns.countplot(data['Tution_for_Kids'])
```

Out[13]:
```
<AxesSubplot:xlabel='Tution_for_Kids', ylabel='count'>
```
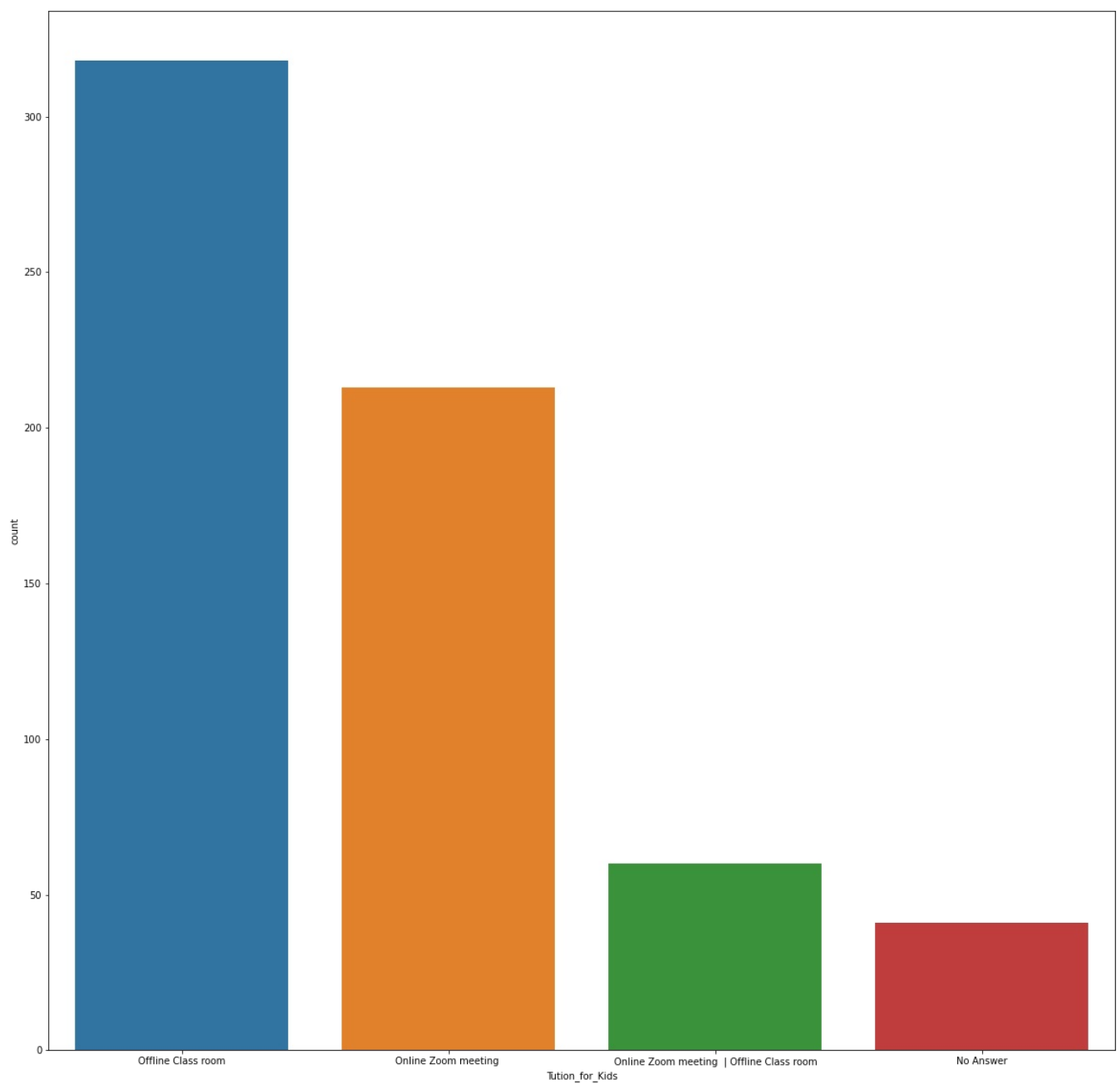
`#most of peopels favourite biryani chicken biryani`
`plt.figure(figsize=(20,20))`

```
plt.xticks(rotation=90)
sns.countplot(data['favorite_biryani'])
```

Out[14]: `<AxesSubplot:xlabel='favorite_biryani', ylabel='count'>`
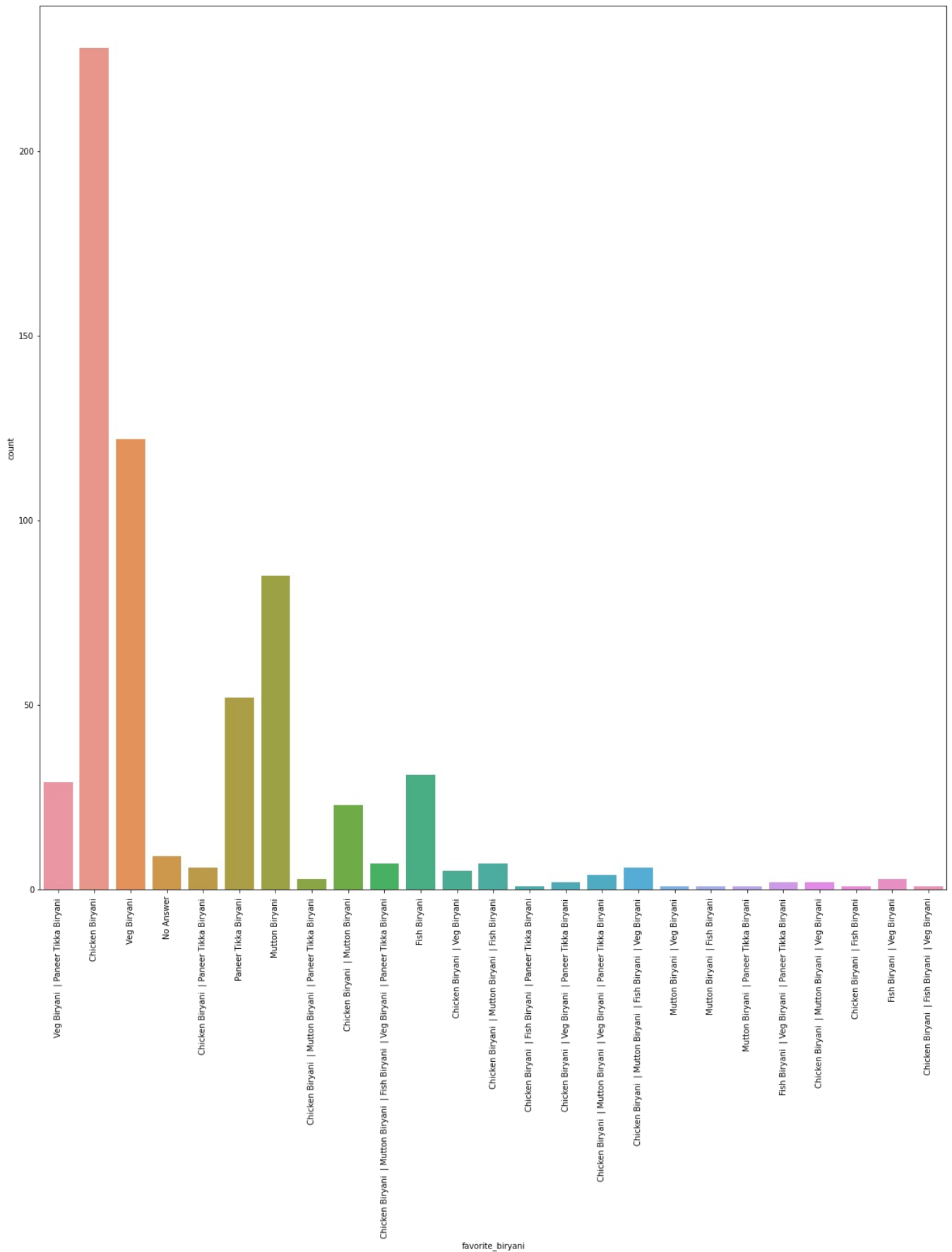

```
# graduation with internships are more
plt.figure(figsize=(20,20))
plt.xticks(rotation=90)
sns.countplot(data['Study_in_class'])
```

Out[15]: `<AxesSubplot:xlabel='Study_in_class', ylabel='count'>`

x-axis label: Study_in_class
y-axis label: count

x-axis categories (left to right):
- No answer
- Graduation with Internship
- LKG to STD 5 | STD 6 to STD 10
- STD 6 to STD 10
- LKG to STD 5
- Post Graduation with Internship
- No Answer
- 11th and 12th JEE preparation
- LKG to STD 5 | STD 6 to STD 10 | 11th and 12th JEE preparation | Graduation with Internship
- LKG to STD 5 | STD 6 to STD 10 | 11th and 12th JEE preparation | Graduation with Internship | Post Graduation with Internship
- LKG to STD 5 | Graduation with Internship
- Graduation with Internship | Post Graduation with Internship
- LKG to STD 5 | STD 6 to STD 10 | 11th and 12th JEE preparation
- 11th and 12th JEE preparation | Graduation with Internship
- STD 6 to STD 10 | 11th and 12th JEE preparation
- LKG to STD 5 | Post Graduation with Internship
- STD 6 to STD 10 | Post Graduation with Internship
- 11th and 12th JEE preparation | Post Graduation with Internship

In [16]: #prefer price range 149 most for 1kg biryani

```
plt.figure(figsize=(20,20))
plt.xticks(rotation=90)
sns.countplot(data['price_range_prefer_for_1kg_biryani'])
```

Out[16]: `<AxesSubplot:xlabel='price_range_prefer_for_1kg_biryani', ylabel='count'>`
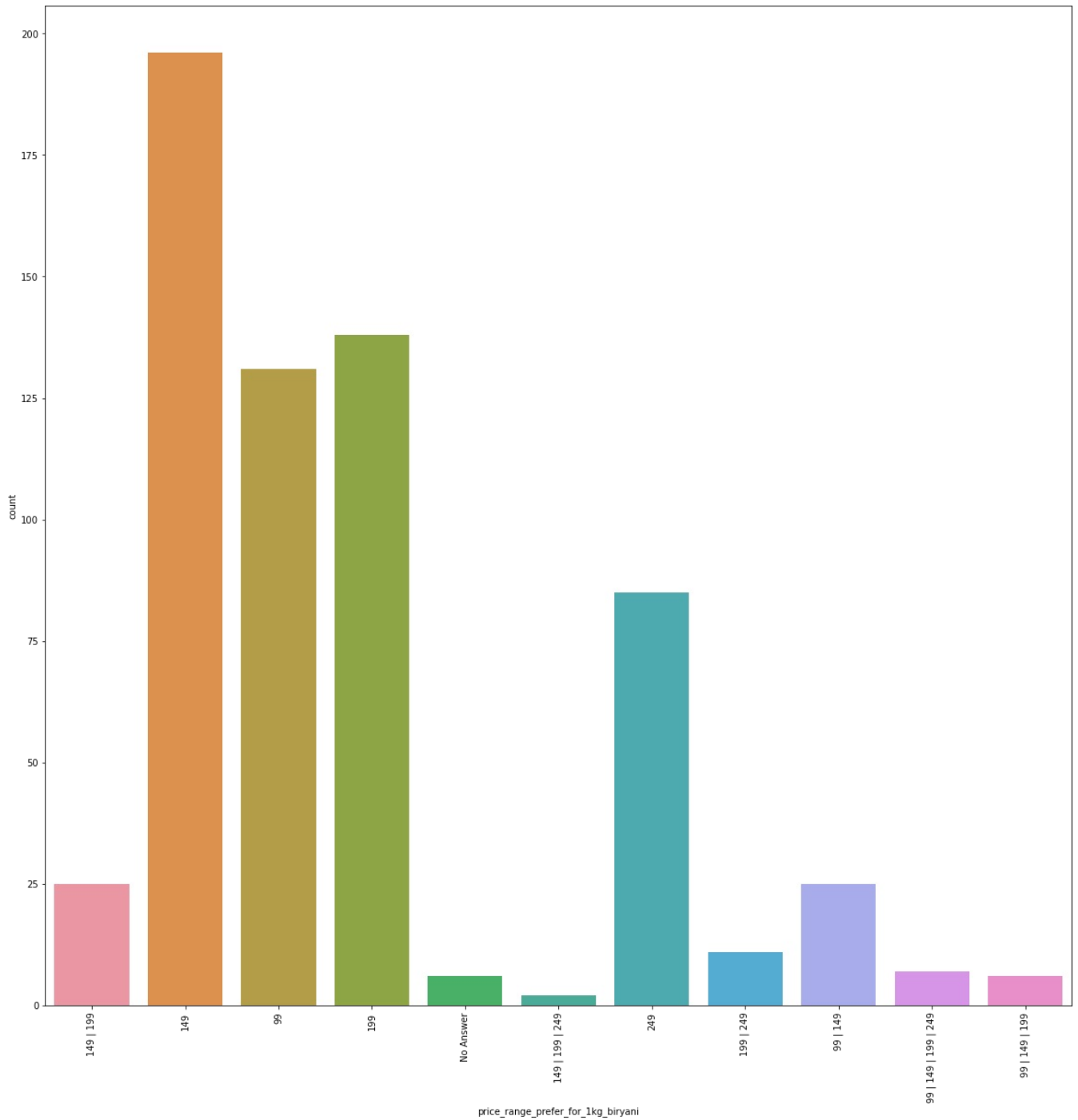

```
#most of prefer bankfd financial products
plt.figure(figsize=(20,20))
plt.xticks(rotation=90)
sns.countplot(data['which_Financial_products_like_most'])
```

Out[17]: `<AxesSubplot:xlabel='which_Financial_products_like_most', ylabel='count'>`

x-axis label: which_Financial_products_like_most

Bar labels (left to right):
- Mutual Fund SIP (ROI 12%)-1yr
- Company Stock IPO(ROI 15%)-1yr
- Yoshops Franchise Investment(ROI 20%)-1yr
- Bank FD(Rate of Interest- 7%)-1yr
- Post office RD (Rate of Interest- 6%)-1yr | Bank FD(Rate of Interest- 7%)-1yr | Mutual Fund SIP (ROI 12%)-1yr | Company Stock IPO(ROI 15%)-1yr | Yoshops Franchise Investment(ROI 20%)-1yr
- Post office RD (Rate of Interest- 6%)-1yr | Mutual Fund SIP (ROI 12%)-1yr
- Post office RD (Rate of Interest- 6%)-1yr
- Company Stock IPO(ROI 15%)-1yr | Yoshops Franchise Investment(ROI 20%)-1yr
- Mutual Fund SIP (ROI 12%)-1yr | Company Stock IPO(ROI 15%)-1yr | Yoshops Franchise Investment(ROI 20%)-1yr
- No Answer
- Bank FD(Rate of Interest- 7%)-1yr | Mutual Fund SIP (ROI 12%)-1yr
- Bank FD(Rate of Interest- 7%)-1yr | Company Stock IPO(ROI 15%)-1yr
- Mutual Fund SIP (ROI 12%)-1yr | Company Stock IPO(ROI 15%)-1yr
- Post office RD (Rate of Interest- 6%)-1yr | Bank FD(Rate of Interest- 7%)-1yr | Mutual Fund SIP (ROI 12%)-1yr
- Bank FD(Rate of Interest- 7%)-1yr | Yoshops Franchise Investment(ROI 20%)-1yr
- Bank FD(Rate of Interest- 7%)-1yr | Mutual Fund SIP (ROI 12%)-1yr | Company Stock IPO(ROI 15%)-1yr
- Post office RD (Rate of Interest- 6%)-1yr | Bank FD(Rate of Interest- 7%)-1yr
- Bank FD(Rate of Interest- 7%)-1yr | Mutual Fund SIP (ROI 12%)-1yr | Yoshops Franchise Investment(ROI 20%)-1yr
- Post office RD (Rate of Interest- 6%)-1yr | Mutual Fund SIP (ROI 12%)-1yr | Company Stock IPO(ROI 15%)-1yr
- Bank FD(Rate of Interest- 7%)-1yr | Mutual Fund SIP (ROI 12%)-1yr | Company Stock IPO(ROI 15%)-1yr | Yoshops Franchise Investment(ROI 20%)-1yr
- Post office RD (Rate of Interest- 6%)-1yr | Bank FD(Rate of Interest- 7%)-1yr | Company Stock IPO(ROI 15%)-1yr | Yoshops Franchise Investment(ROI 20%)-1yr
- Mutual Fund SIP (ROI 12%)-1yr | Yoshops Franchise Investment(ROI 20%)-1yr
- Post office RD (Rate of Interest- 6%)-1yr | Yoshops Franchise Investment(ROI 20%)-1yr

In [18]:
```python
#prices of laptops and phones is most 15k-30k
plt.figure(figsize=(20,20))
plt.xticks(rotation=90)
sns.countplot(data['prefer_prices_for_laptop_and_phone'])
```

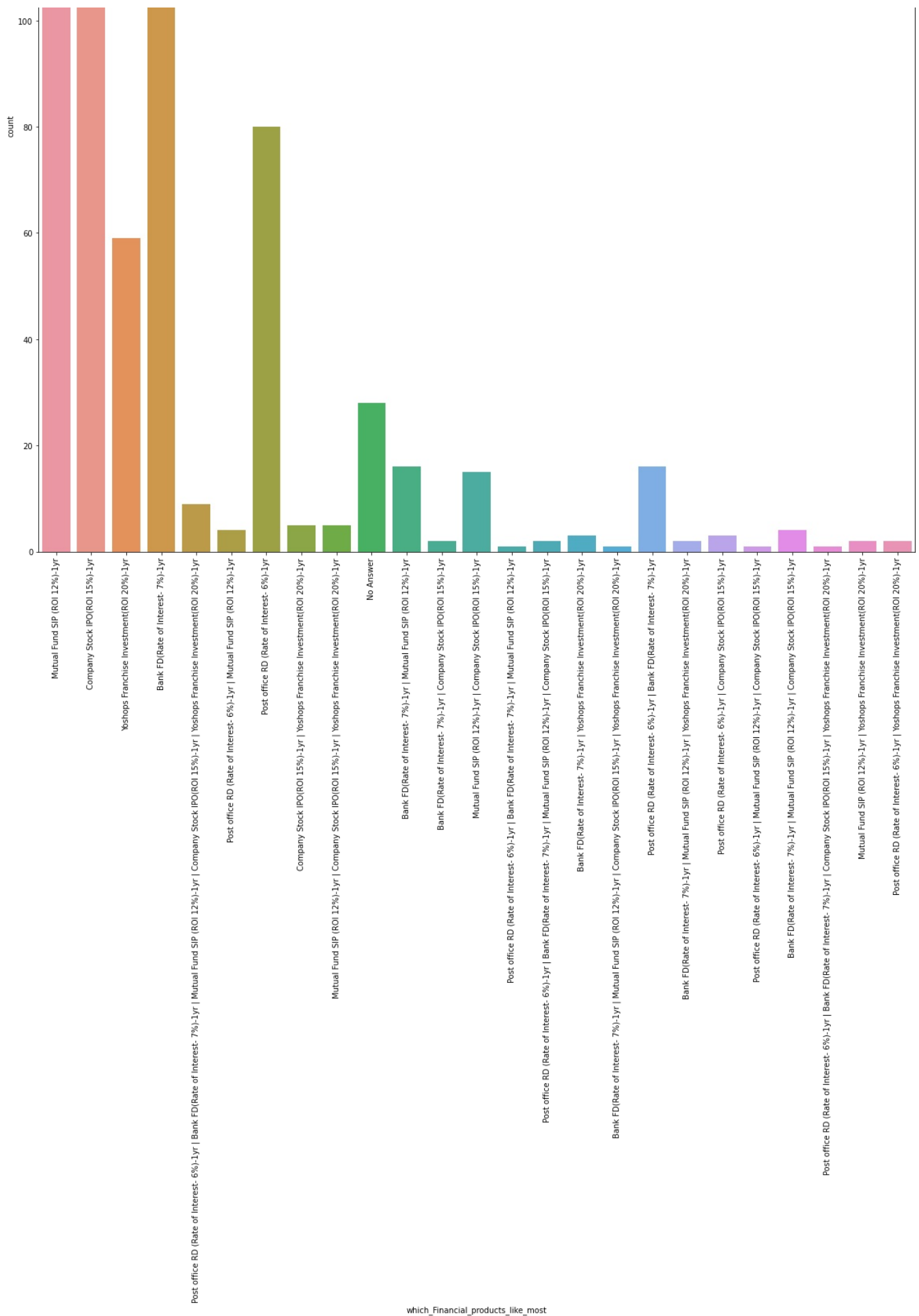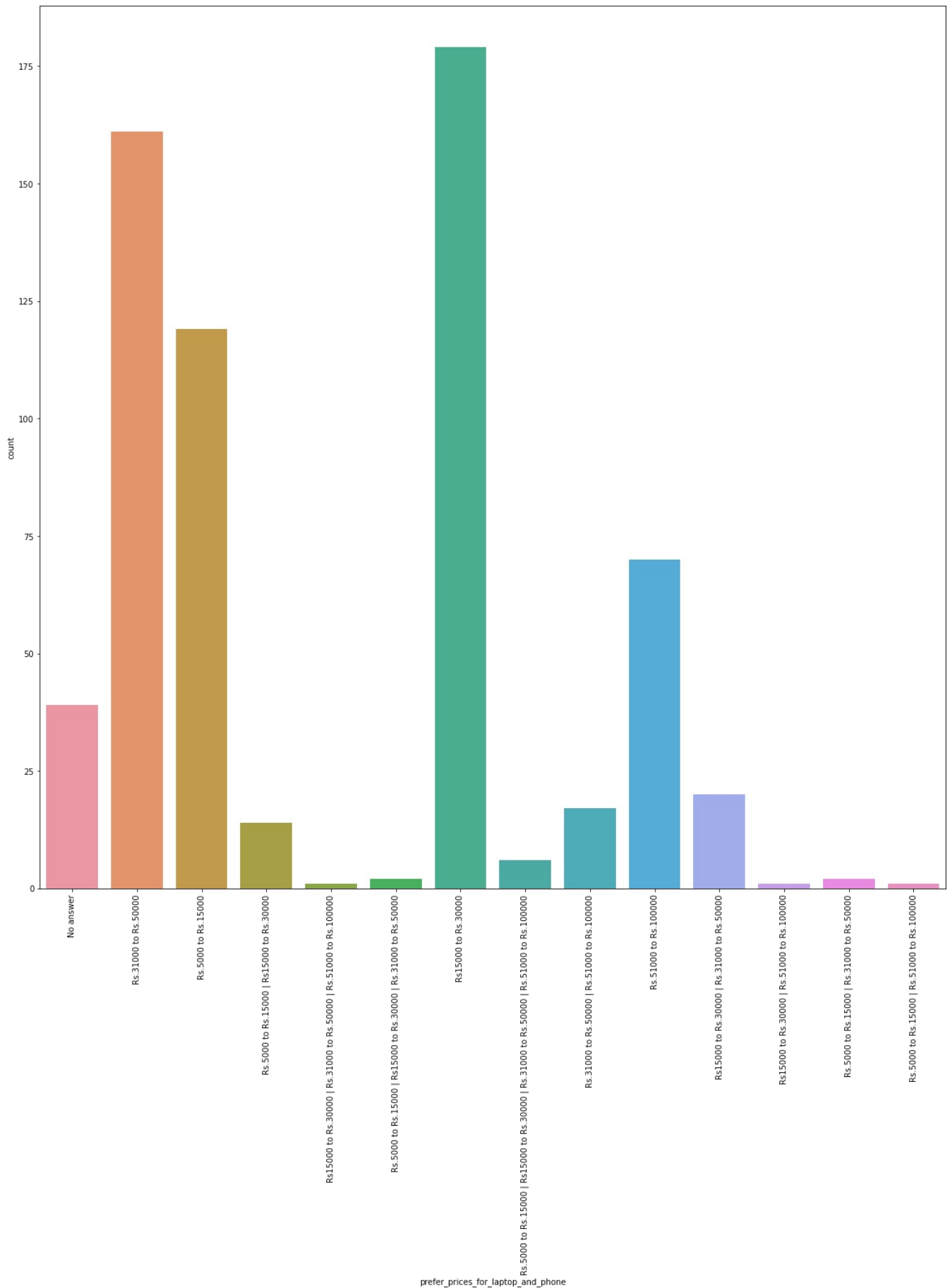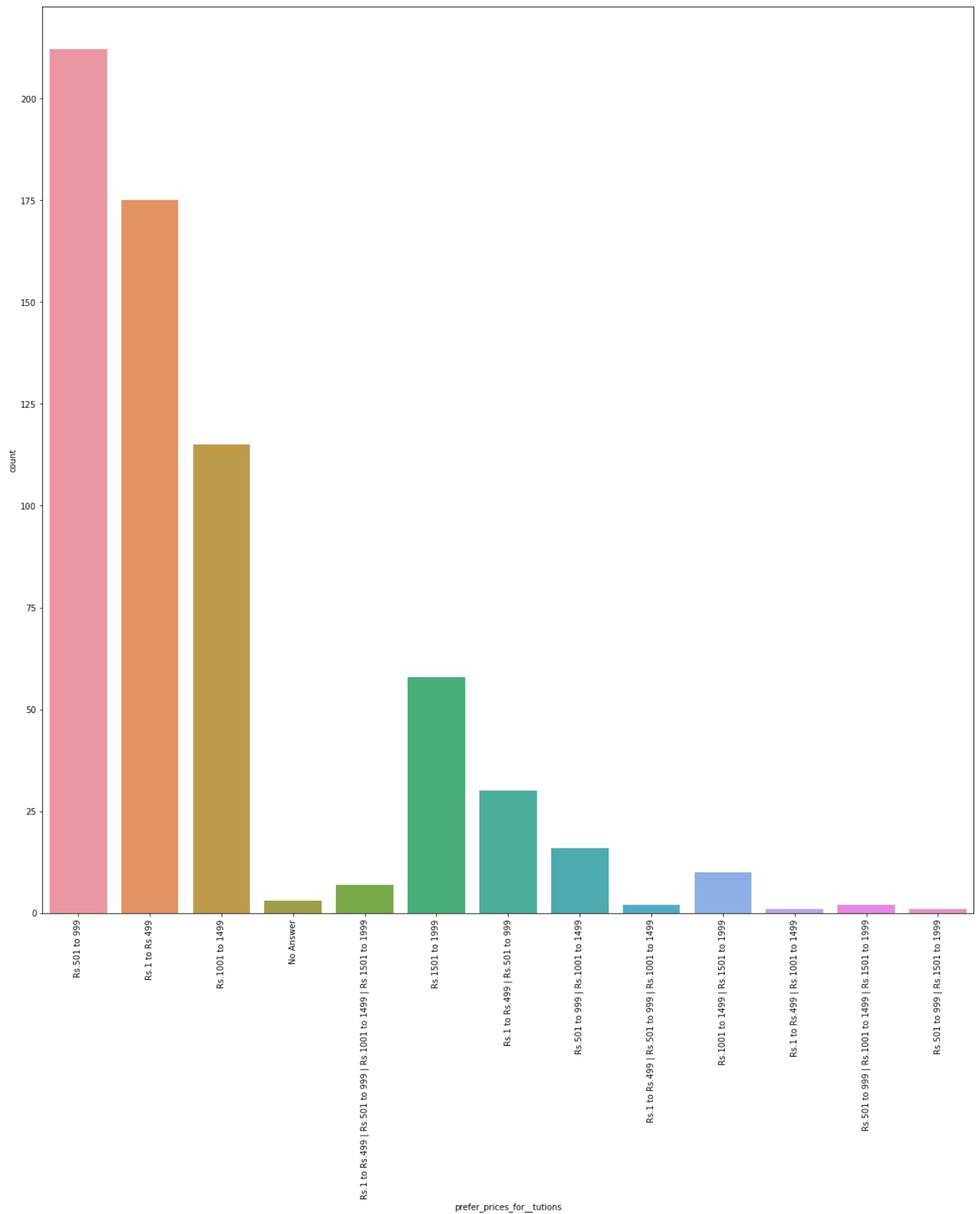Out[18]: <AxesSubplot:xlabel='prefer_prices_for_laptop_and_phone', ylabel='count'>

```
In [20]:  #tution fee most of choose 501-999
          plt.figure(figsize=(20,20))
          plt.xticks(rotation=90)
          sns.countplot(data['prefer_prices_for__tutions'])
```

Out[20]: <AxesSubplot:xlabel='prefer_prices_for__tutions', ylabel='count'>

x-axis label: prefer_prices_for__tutions

Bar labels (left to right):
- Rs 501 to 999
- Rs 1 to Rs.499
- Rs 1001 to 1499
- No Answer
- Rs 1 to Rs.499 | Rs 501 to 999 | Rs 1001 to 1499 | Rs 1501 to 1999
- Rs 1501 to 1999
- Rs 1 to Rs.499 | Rs 501 to 999
- Rs 501 to 999 | Rs 1001 to 1499
- Rs 1 to Rs.499 | Rs 501 to 999 | Rs 1001 to 1499
- Rs 1001 to 1499 | Rs 1501 to 1999
- Rs 1 to Rs.499 | Rs 1001 to 1499
- Rs 501 to 999 | Rs 1001 to 1499 | Rs 1501 to 1999
- Rs 501 to 999 | Rs 1501 to 1999

```
In [22]: # submited time most is dec16 2022
         plt.figure(figsize=(20,20))
         plt.xticks(rotation=45)
         sns.countplot(data['Submitted Time'])
```

```
Out[22]: <AxesSubplot:xlabel='Submitted Time', ylabel='count'>
```
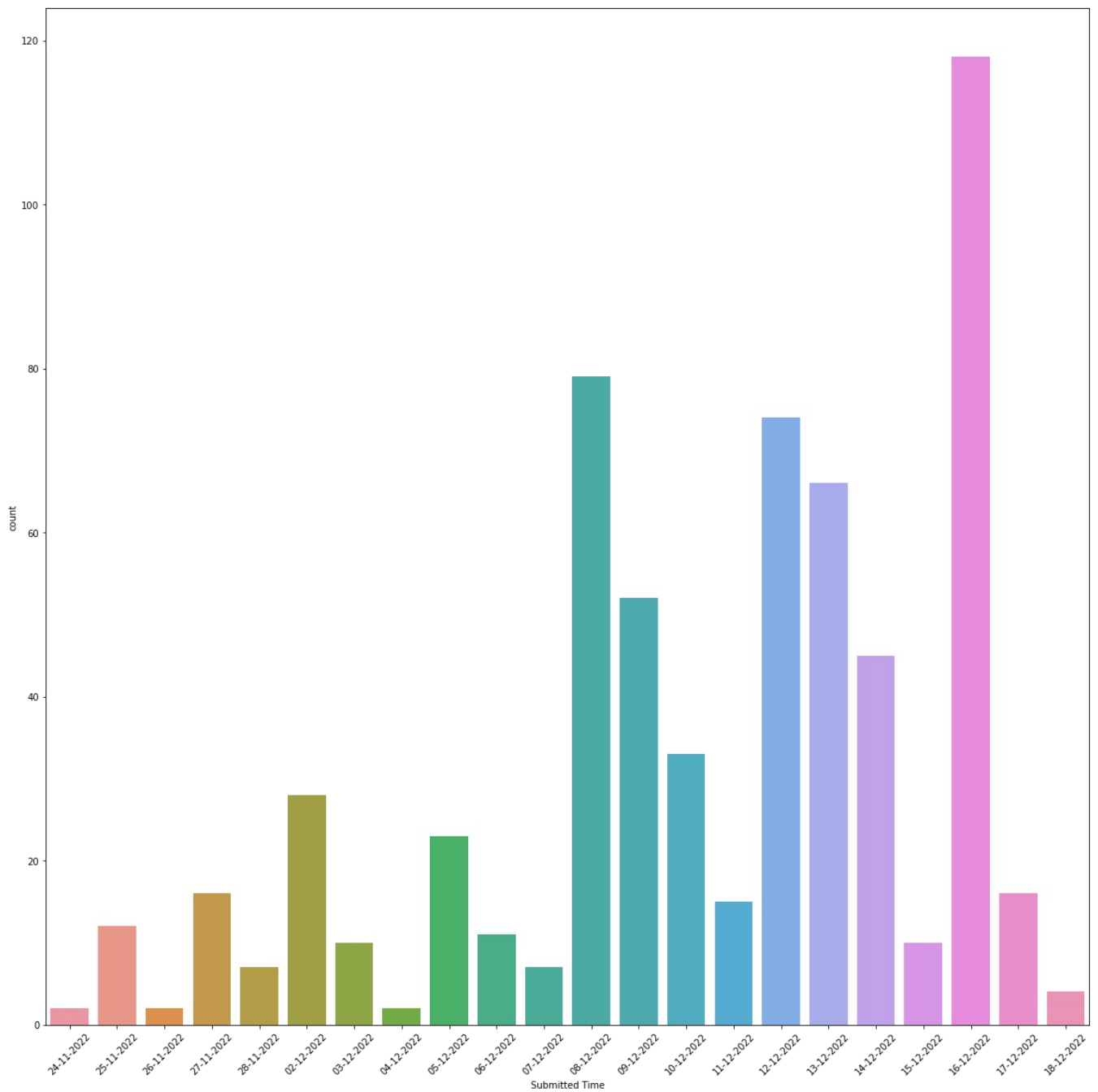
observations:

1)most of people prefer for tution is offline slightly less than online

2)mostly choose chicken biyani is favorite food item

3)tution fee most of choose 501-999

4)prices of laptops and phones is most 15k-30k

5)most of prefer bankfd financial products

6)prefer price range 149 most for 1kg biryan

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