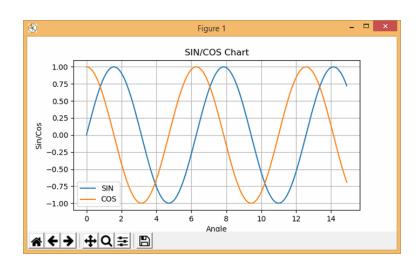


INFORMATICS PRACTICES PROJECT



Names: Aathif, Mithish,

Tanaya

Class: XII C

Topic: In-flight entertainment system

<u>INDEX</u>

S.No	Topics	Page
1	Acknowledgement	
2	Project Aim	
3	Project Description	
4	Program Source Code	
5	Sample Output	
6	Possible Improvements	
7	Bibliography	

ACKNOWLEDGEMENT

We are overwhelmed in all humbleness and gratefulness to acknowledge our depth to all those who have helped us to put these ideas together. We would sincerely like to thank our school principal Mrs. Rashmi Nandkeolyar and teachers for giving us the support to research on the given topic. It would not have been possible without the kind help and constant support of many individuals such as our teacher Ms. Almas Begum. We respect and thank her, for providing us with an opportunity to do the project work and giving us all the support and guidance, which helped us to complete the project duly. We are extremely thankful to her for providing such nice support and guidance.

We have enjoyed working on this project. It has also helped us increase our general knowledge and research skills. The completion of this project could not have been accomplished without the support of our classmates and teachers.

We would also like to express our gratitude towards our parents for their kind cooperation and encouragement which helped us to the fulfilment of this project. We would like to express our special gratitude to them for giving us such kind attention and time. Our appreciation also goes to our friends in the development of this project.

Project Aim

To incorporate the management of data using python modules of pandas, matplotlib while importing data from MySQL and CSV files to create a menu-driven program that is informative, real-life applicable and user-friendly.

Project Description

Our project is an in-flight entertainment system in which the user can select from a wide array of options to get the song or movie which they prefer, based on the airline and the route they are currently on. There are around 50 options from which the user can select from.

To make the airline database, we had to create the SQL database which contains airline and route information. This was done through our prior knowledge of SQL which we had learnt in classes 11 and 12. We had used several data types in the SQL database which includes date and math functions. Similarly, we had created the databases containing the information for movies and songs in the same way. After the database creation was complete, we had exported the data into a csv file which would be used when the user runs the program.

The user would first select their airline information based on their preference. On selecting an option from a menu, the program will input the CSV file and through several operations using python pandas and matplotlib, they would be able to view the output.

On selecting their preferred airline and route, the interface would prompt the user to select a movie which they prefer based on the airline they have selected. The program would again input the CSV file and the same process would take place, as seen in the initial case.

Finally, after the movie is selected, the user would be able to select a song title based on their preferences on artists and genre etc, through the aforementioned process.

To make the interface clean and simple, we have incorporated the use of several functions such as the while loop function. The loop would be done until the user is satisfied with their option. We have also added an if function with breaks as well.

Source code:

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
print("-----")
print("-----")
pd.set option('display.max rows',15)
pd.set option('display.max columns',20)
pd.set option('display.precision',2)
df = pd.read csv('Mithish CSV.csv')
df.set index("Sno",drop=True, inplace=True)
ans="Yes"
while ans=="Y" or ans=="y" or ans=="Yes" or ans=="yes":
  print("")
  print("Airline Database")
  print("Please choose from the available options: ")
  print("1.To print the entire the database")
  print("2.To get information of the dataframe and their datatypes")
  print("3. The specific columns by its heading")
  print("4. The information of a route by the index number")
  print("5.The total number of rows and columns")
  print("6. The details of the first 'n' data")
  print("7. The details of the last 'n' data")
  print("8. The details of the route whose fare is more than a specified amount")
  print("9. The details of the route having highest and lowest rating")
  print("10. Display the headings of the dataframe")
  print("11.Append a row")
  print("12. Terminate a row")
  print('13.To plot a graph between destination and rating')
  print("14.Exit")
  opt=int(input('Enter the option you would like to choose: '))
  if opt==1:
    print("The entire database: ")
    print(df)
  elif opt==2:
    print("The database information is")
    print(df.info)
  elif opt==3:
    print("The available headings are:",df.columns)
    n=int(input("Enter number of columns whoose details must be displayed: "))
    for i in range(n):
      heading=input("Enter the column heading: ")
```

```
print(df.loc[:,[heading]])
  elif opt==4:
    y=int(input("Enter the index"))
    x=y-1
    yx=df.iloc[[x]]
    print("The ",y," route is")
    print(yx)
  elif opt==5:
    print("The total number of rows and columns are: ")
    (a,b)=(df.shape)
    print("The total number of rows is",a)
    print("The total number of columns is",b)
  elif opt==6:
    h=int(input("Enter the number of routes "))
    print(df.head(h))
  elif opt==7:
    t=int(input("Enter the number of routes "))
    print(df.tail(t))
  elif opt==8:
    r df=df[["Airline","CostInAED"]]
    a=int(input("Enter the amount"))
    res=r df[(r df["CostInAED"]>=a)]
    print("The routes whose fare is more than ",a)
    print(res)
  elif opt==9:
    print("Highest rating")
    maxi=df["Rating"].max()
    print(df.loc[df.Rating==maxi,:])
    print("Lowest Rating")
    mini=df["Rating"].min()
    print(df.loc[df.Rating==mini,:])
  elif opt==10:
    print("The headings are")
    print(df.columns)
  elif opt==11:
    print("The options for the new row are: ")
    x={'Sno':21,'Airline':'Delta','FlightNo':410,'Origin':'Dubai DXB','Destination':'Atlanta',
      'DepartureTime':130,'ArrivalTime':2130,'Aircraft':777,'Duration':1400,'MaxPax':300,
       'CostInAED':5500,'Rating':2.6,'IFE':'Y'}
    y={'Sno':21,'Airline':'Air New Zealand','FlightNo':30,'Origin':'Dubai
DXB', 'Destination': 'Auckland',
      'DepartureTime':130,'ArrivalTime':1530,'Aircraft':777,'Duration':1700,'MaxPax':300,
       'CostInAED':5500,'Rating':4.5,'IFE':'Y'}
    print("The options are:")
    print(x)
    print(y)
    op=input("Enter x or y: ")
```

```
if op=="x":
       "sa=input("Enter which row you want to add, a or b: ")"
      df=df.append(a,ignore index=True)
      print("The dataframe is: ",df)
    elif op=="y":
      df=df.append(b,ignore index=True)
      print("The dataframe is: ",df)
       print("Enter valid option")
  elif opt==12:
    r=int(input("Enter the index of the row you want to delete"))
    df.drop(df.index[r])
    print(df.loc[0:r,:])
  elif opt==13:
    dest=df.Destination
    rate=df.Rating
    plt.plot(dest,rate)
    plt.xlabel('Destination',fontsize=11)
    plt.ylabel('Rating',fontsize=11)
    plt.xticks(rotation=45)
    plt.yticks(rotation=90)
    plt.show()
  elif opt==14:
    break
print("-----Thank you for checking the Flight info-----")
answ="yes"
while answ=="yes":
  op=input("Would like to check the In-Flight Movie(1)/Music(2) options: ")
  if op=="1" or op=="Movie":
    pd.set option('display.precision',2)
    df = pd.read csv('Aathif CSV.csv')
    pd.set option('display.max rows',15)
    pd.set option('display.max columns',20)
    pd.set option('display.precision',2)
    df.set index("Sno",drop=True, inplace=True)
    ans="Yes"
    while ans=="Yes" or ans=="ves" or ans=="v":
      print("")
      print("------ Welcome To AMOVIES
-----")
      print("These are the available options:")
      print("1)To check the names of all the information by giving heading of the movies")
      print("2)Dataframe and Datatypes")
      print("3)The info of a movie by its index number")
      print("4)Shape of dataframe")
       print("5)The details of specific columns")
      print("6)Movie info based on Tilte")
```

```
print("7)The details of the first n movies")
print("8)The details of the last n movies")
print("9)The details of the movies with highest and lowest vote average")
print("10)Sorting the dataframe based on Revenue")
print("11)To create a smaller dataframe based on a specific column")
print("12)To sort the movies")
print("13)Retrive the details of movies whoose runtime is in a specific range")
print("14)Retrive a list of all the movies")
print("15)To Append a new row")
print("16)To terminate a row")
print("17)Retrive numeric values of the coloumns")
print("18)Visualisation of Data")
print("19)To print the entire the database")
ot=int(input('Enter the chosen task by giving its index number '))
if ot==1:
  print("The names of the headings")
  print(df.columns)
elif ot==2:
  print("The information about the database")
  print(df.info)
elif ot==3:
  x=int(input("Enter the index "))
  a=x-1
  x movie=df.iloc[[a]]
  print("The ",x," movie is")
  print(x movie)
elif ot==4:
  print("The total number of rows and columns are: ")
  (a,b)=(df.shape)
  print("The total number of rows is",a)
  print("The total number of columns is",b)
elif ot==5:
  print("The available headings are:",df.columns)
  n=int(input("Enter number of headings whoose,details must be displayed "))
  for i in range(n):
     hd=input("Enter the heading ")
     print(df.loc[:,[hd]])
elif ot==6:
  print("The available movies are")
  print(df["Title"])
  df = df.set index('Title')
  t=input("Enter the Title of the movie ")
  result = df.loc[t]
  print("Details of the movie ")
  print(result)
elif ot==7:
  f=int(input("Enter the number of movies "))
  print(df.head(f))
```

```
elif ot==8:
         l=int(input("Enter the number of movies "))
         print(df.tail(l))
       elif ot==9:
         print("Highest vote average")
         mx=df["Vote average"].max()
         print(df.loc[df.Vote average==mx,:])
         print("Lowest vote avg")
         mn=df["Vote average"].min()
         print(df.loc[df.Vote average==mn,:])
       elif ot==10:
         s df=df[["Title","Budget"]]
         x=int(input("Enter the ammount more "))
         result=s df[(s df["Budget"]>=x)]
         print("The movies whoose budget is more than ",x)
         print(result)
       elif ot==11:
         print("The available coloumns are: ")
         print(df.columns)
         s=int(input("Enter the number of columns "))
         1=[]
         for i in range(s):
            col=input("Enter the name of the coloumns")
            l.append(col)
         x df=df[1]
         print("The dataframe is")
         print(x df)
       elif ot==12:
         small df=df[["Title","Language","Budget","Runtime"]]
         h=input("Do you want to sort the data based on revenue or runtime")
         o=input("Do you want to arrange it in Increasing(1) or Decreasing(2) enter the respective
number ")
         if h=="revenue":
            if o=="1":
              rez1=small df.sort values(by="Budget",ascending=True)
              print(rez1)
            elif o=="2":
              rez2=small df.sort values(by="Budget",ascending=False)
              print(rez2)
         elif h=="runtime":
            if o=="1":
              rez3=small df.sort values(by="Runtime",ascending=True)
              print(rez3)
            elif o=="2":
              rez4=small df.sort values(by="Runtime",ascending=False)
              print(rez4)
         else:
            print("Enter a valid value")
```

```
elif ot==13:
         small=df[["Title","Language","Revenue","Runtime","Popularity"]]
         print("Please ensure the range is between 50 and 192")
         b=int(input("Enter the minimum range for the runtime"))
         a=int(input("Enter the maximum range for the runtime"))
         rex=small[(small["Runtime"]>=b) & (small["Runtime"]<=a)]
         print(rex)
       elif ot==14:
         print("The movies are: ")
         print(df["Title"])
       elif ot==15:
         print("the options of new row are: ")
         a={"Title": "Love
Simon","Budget":15000000,"Genres":"Comedy,Romance","ID":435,"Popularity":18.9478,"Status":"
Released","Language":"en","Runtime":132,"Vote average":8.8}
         b={"Title":"Alex Strangelove"
"Budget":1000000, "Genres": "Comedy, Romance", "ID":2345, "Popularity":16.989, "Status": "Released,"
,"Language":"en","Runtime":132,"Vote average":8.7}
         c={"Title":"Blue Is the Warmest
Colour", "Budget": 9000000, "Genres": "Comedy, Romance", "ID": 8745, "Popularity": 18.867, "Status": "R
eleased","Language":"en","Runtime":132,"Vote average":7.5}
         print("Available options are: ")
         print(a)
         print("")
         print(b)
         print("")
         print(c)
         print("")
         sd=input("Enter the option to be added: ")
         if sd=="a":
            df=df.append(a,ignore index=True)
         elif sd=="b":
            df=df.append(b,ignore index=True)
         elif sd=="c":
            df=df.append(c,ignore index=True)
         else:
            print("Enter the valid value")
         print(df)
       elif ot==16:
         gh=int(input("Index of row you want to drop"))
         df.drop(df.index[gh])
         print(df.loc[0:gh,:])
       elif ot==17:
         small df=df[["Title","Budget","Runtime","Vote average"]]
         print(small df.describe())
       elif ot==18:
         cntr=(df["Production Country"])
         count us=0
```

```
count uk=0
         count eu=0
         count au=0
         count ca=0
         for i in range(0,25):
           c=cntr.iloc[i]
           if c=="United States":
             count_us=count_us+1
           elif c=="United Kingdom":
             count uk=count uk+1
           elif c=="Australia":
             count au=count au+1
           elif c=="Europe":
             count eu=count eu+1
           elif c=="Canada":
             count ca=count ca+1
         x=["United States","United Kingdom","Australia","Europe","Canada"]
         y=[count_us,count_uk,count_au,count_eu,count_ca]
         plt.bar(x,y,color=["red","blue","green","cyan","orange"],width=0.25)
         plt.title("Movie Production Map")
         plt.xlabel("Countries")
         plt.ylabel("Movies Produced")
         plt.show()
      elif ot==19:
         print("The entire database:")
         print(df)
      ans=input("Do you want to continue")
      if ans=="yes":
         ans="Yes"
      elif ans=="Yes":
         ans="Yes"
      elif ans=="v":
         ans=="Yes"
      elif ans=="No":
         break
      elif ans=="no":
         break
      else:
         print("Enter a valid value")
         ans=input("Do you want to continue")
    print("-----Thank you, Have a nice
day----")
  elif op=="2" or op=="Music":
    pd.set option('display.max rows',15)
    pd.set option('display.max columns',20)
    pd.set_option('display.precision',2)
    df = pd.read csv('Tanaya CSV.csv')
    df.set index("Sno",drop=True, inplace=True)
```

```
ans="Yes"
    while ans=="Y" or ans=="y" or ans=="Yes" or ans=="yes":
       print("")
       print("Welcome To SONGS PLAYLIST")
       print("Please choose from the available options: ")
       print("1)Print the entire the database")
       print("2)Get information of the dataframe and their datatypes")
       print("3)Display the specific columns by its heading")
       print("4)Display the details of a song by its name")
       print("5)Display the information of a particular song by the index number")
       print("6)Find the total number of rows and columns")
       print("7)Display the details of the first 'n' songs")
       print("8)Display the details of the last 'n' songs")
       print("9)Display the details of the song whoose revenue generated is more than a specified
amount")
       print("10)Display the details of the songs having highest and lowest vote average")
       print("11)Display all the headings of the dataframe")
       print("12)Sort the songs in ascending order")
       print("13)Sort the songs in descending order")
       print("14)Display a list of all the songs")
       print("15)Add a new row")
       print("16)Delete a row")
       print("17)Use the describe function on the columns")
       print("18)Draw a bar graph based on the production country")
       opt=int(input('Enter the option you would like to choose: '))
       if opt==1:
          print("The entire database: ")
          print(df)
       elif opt==2:
          print("The database information is")
          print(df.info)
       elif opt==3:
          print("The available headings are:",df.columns)
          n=int(input("Enter number of columns whoose details must be displayed: "))
          for i in range(n):
            heading=input("Enter the column heading: ")
            print(df.loc[:,[heading]])
       elif opt==4:
          print("The available songs are")
          print(df["Title"])
          df=df.set index('Title')
          t=input("Enter the Title of the song: ")
          res=df.loc[t]
          print("Details of the song: ")
          print(res)
       elif opt==5:
          y=int(input("Enter the index"))
          x=y-1
```

```
y song=df.iloc[[x]]
         print("The ",y," song is")
         print(y song)
       elif opt==6:
         print("The total number of rows and columns are: ")
         (a,b)=(df.shape)
         print("The total number of rows is",a)
         print("The total number of columns is",b)
       elif opt==7:
         h=int(input("Enter the number of movies "))
         print(df.head(h))
       elif opt==8:
         t=int(input("Enter the number of movies "))
         print(df.tail(t))
       elif opt==9:
         r df=df[["Title","Revenue"]]
         a=int(input("Enter the amount"))
         res=r df[(r df["Revenue"]>=a)]
         print("The movies whose revenue is more than ",a)
         print(res)
       elif opt==10:
         print("Highest vote average")
         maxi=df["Vote average"].max()
         print(df.loc[df.Vote average==maxi,:])
         print("Lowest vote avg")
         mini=df["Vote average"].min()
         print(df.loc[df.Vote average==mini,:])
       elif opt==11:
         print("The headings are")
         print(df.columns)
       elif opt==12:
         a=input("The column to be sorted: ")
         x df=df.sort values(by=a,ascending=True)
         print(x df)
       elif opt==13:
         b=input("The column to be sorted: ")
         y df=df.sort values(by=b,ascending=False)
         print(y df)
       elif opt==14:
         print("All the movies are: ")
         print(df["Title"])
       elif opt==15:
         print("The options for the new row are: ")
         a={"Index":16,"Title":"Watermelon Sugar","Genres":"[{'id': 39, 'name':
'Pop'}]","ID":4985,"Language":"en",
```

"Overview": "Watermelon Sugar is a song by English singer Harry Styles from his second studio album Fine Line (2019), included as the album's second track. Styles wrote the song with Mitch Rowland and its producers Tyler Johnson and Kid Harpoon.", "Producer":"[{'name': 'Tyler Johnson and Kid Harpoon', 'id': 915}","Production countries":"United states of america", "Release date": "05/15/2020", "Revenue": 483700000, "Runtime": 189, "Spoken languages": "[{'iso 639} 1': 'en', 'name': 'English'}]", "Status": "Released", "Vote average": 8.8} b={"Index":16,"Title":"Imagine","Genres":"[{'id': 10, 'name': 'Rock'}]","ID":47447,"Language":"en", "Overview": "Imagine is a song by English rock musician John Lennon from his 1971 album of the same name.", "Producer":"[{'name': 'John Lennon and Yoko Ono', 'id': 909}","Production countries":"United states of america", "Release date":"10/11/1971","Revenue":45687000,"Runtime":183,"Spoken languages":"[{'iso 639 1': 'en', 'name': 'English'}]", "Status": "Released", "Vote average": 8.7} print("The options are: ") print(a) print(b) xp=input("Enter which row you want to add, a or b: ") if xp == "a": df=df.append(a,ignore index=True) print("The dataframe is: ",df) elif xp=="b": df=df.append(b,ignore index=True) print("The dataframe is: ",df) else: print("Enter valid option") elif opt==16: r=int(input("Enter the index of the row you want to delete")) df.drop(df.index[r]) print(df.loc[0: r,:]) elif opt==17: print(df.describe()) elif opt==18: Production countries=["Jamaica", "Europe", "UK", "France", "USA"] Y=[1,1,1,2,15]plt.bar(Production countries, Y, color=["red", "black", "green", "cyan", "blue"], width=0.25) plt.title("Bar Graph") plt.xlabel("Country") plt.ylabel("Number of Songs") plt.show() ans=input("Do you want to continue ")

if ans=="yes": ans="Yes"

```
elif ans=="Yes":
       ans="Yes"
     elif ans=="y":
       ans=="Yes"
     elif ans=="Y":
       ans=="Yes"
     elif ans=="No":
       break
     elif ans=="no":
       break
     elif ans=="N":
       break
     elif ans=="n":
       break
     else:
       print("Enter a valid value")
       ans=input("Do you want to continue")
   print("-----Thank you, Have a nice
day----")
 else:
   print("Enter a valid input")
   op=input("Would like to check the In-Flight Movie(1)/Music(2) options")
 qe=input("Would you like to continue: ")
 if qe=="yes" or qe=="y" or qe=="Yes":
   answ="yes"
 else:
   break
print("-----Thank you, Hope to see you
again-----")
```

Program Output:

Sno

2

In-Flight entertainment		
Welcome to MAT airways		
Airline Database Please choose from the available options: 1.To print the entire the database 2.To get information of the dataframe and their datatypes 3. The specific columns by its heading 4. The information of a route by the index number 5.The total number of rows and columns 6. The details of the first 'n' data 7. The details of the last 'n' data 8. The details of the route whose fare is more than a specified amount 9. The details of the route having highest and lowest rating 10. Display the headings of the dataframe 11.Append a row 12. Terminate a row 13.To plot a graph between destination and rating 14.Exit Enter the option you would like to choose: 6		
Enter the number of routes 2 Airline FlightNo Origin Destination DepartureTime \		
Sno		
1 Emirates 1 Dubai DXB London Heathrow LHR 745 2 Emirates 201 Dubai DXB New York JFK 845		
ArrivalTime Aircraft Duration MayPay CostInAED Rating IEE		

1225 A380 700 489 3000 4.3 Y 1530 A380 1450 489 5500 3.8 Y

```
rile Edit Shell Debug Options Window Help
9. The details of the route having highest and lowest rating
10. Display the headings of the dataframe
11.Append a row
12. Terminate a row
13. To plot a graph between destination and rating
Enter the option you would like to choose: 10
The headings are
Index(['Airline', 'FlightNo', 'Origin', 'Destination', 'DepartureTime',
    'ArrivalTime', 'Aircraft', 'Duration', 'MaxPax', 'CostInAED', 'Rating',
    'IFE'],
   dtype='object')
Airline Database
Please choose from the available options:
1.To print the entire the database
2. To get information of the dataframe and their datatypes
3. The specific columns by its heading
4. The information of a route by the index number
5. The total number of rows and columns
6. The details of the first 'n' data
7. The details of the last 'n' data
8. The details of the route whose fare is more than a specified amount
9. The details of the route having highest and lowest rating
10. Display the headings of the dataframe
11.Append a row
12. Terminate a row
13. To plot a graph between destination and rating
14.Exit
```

-----Thank you for checking the Flight info-----Thank you for checking the Flight info------

Enter the option you would like to choose: 14

```
----Thank you for checking the Flight info----
Would like to check the In-Flight Movie(1)/Music(2) options: 2
Welcome To SONGS PLAYLIST
Please choose from the available options:
1)Print the entire the database
2)Get information of the dataframe and their datatypes
3)Display the specific columns by its heading
4)Display the details of a song by its name
5)Display the information of a particular song by the index number
6)Find the total number of rows and columns
7) Display the details of the first 'n' songs
8)Display the details of the last 'n' songs
9)Display the details of the song whoose revenue generated is more than a specified amount
10)Display the details of the songs having highest and lowest vote average
11)Display all the headings of the dataframe
12)Sort the songs in ascending order
13)Sort the songs in descending order
14) Display a list of all the songs
15)Add a new row
16)Delete a row
17)Use the describe function on the coloumns
18)Draw a bar graph based on the production country
Enter the option you would like to choose: 14
All the movies are:
Sno
1
         Abilene
2
     Ace of Spades
3
 Above and Beyond
4
          Alive
5
       All Blues
16
                New Rules
17
                One Dance
                  Perfect
18
                 Rockabye
19
                  Stiches
20
```

Name: Title, Length: 20, dtype: object

Do you want to continue yes

Welcome To SONGS PLAYLIST

Please choose from the available options:

- 1)Print the entire the database
- 2)Get information of the dataframe and their datatypes
- 3)Display the specific columns by its heading
- 4)Display the details of a song by its name
- 5)Display the information of a particular song by the index number
- 6) Find the total number of rows and columns
- 7) Display the details of the first 'n' songs
- 8) Display the details of the last 'n' songs
- 9)Display the details of the song whoose revenue generated is more than a specified amount
- 10)Display the details of the songs having highest and lowest vote average
- 11)Display all the headings of the dataframe
- 12)Sort the songs in ascending order
- 13)Sort the songs in descending order
- 14)Display a list of all the songs
- 15)Add a new row
- 16)Delete a row
- 17)Use the describe function on the coloumns
- 18)Draw a bar graph based on the production country

Enter the option you would like to choose: 18

Would like to check the In-Flight Movie(1)/Music(2) options: 1

------ Welcome To AMOVIES ------

These are the available options:

- 1)To check the names of all the information by giving heading of the movies
- 2)Dataframe and Datatypes
- 3)The info of a movie by its index number
- 4)Shape of dataframe
- 5)The details of specific columns
- 6)Movie info based on Tilte
- 7)The details of the first n movies
- 8)The details of the last n movies
- 9)The details of the movies with highest and lowest vote average
- 10)Sorting the dataframe based on Revenue
- 11)To create a smaller dataframe based on a specific column
- 12)To sort the movies
- 13)Retrive the details of movies whoose runtime is in a specific range
- 14)Retrive a list of all the movies
- 15)To Append a new row
- 16)To terminate a row
- 17)Retrive numeric values of the coloumns
- 18) Visualisation of Data
- 19)To print the entire the database

Enter the chosen task by giving its index number 4

The total number of rows and columns are:

The total number of rows is 25

The total number of columns is 11

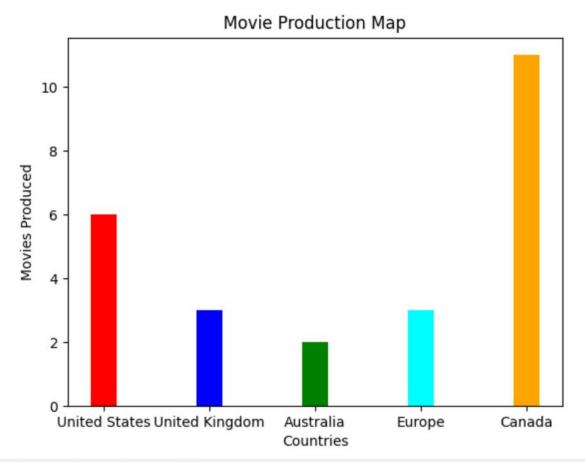
Would like to check the In-Flight Movie(1)/Music(2) options: 1

------ Welcome To AMOVIES ------

These are the available options:

- 1)To check the names of all the information by giving heading of the movies
- 2)Dataframe and Datatypes
- 3)The info of a movie by its index number
- 4)Shape of dataframe
- 5)The details of specific columns
- 6)Movie info based on Tilte
- 7) The details of the first n movies
- 8)The details of the last n movies
- 9)The details of the movies with highest and lowest vote average
- 10)Sorting the dataframe based on Revenue
- 11)To create a smaller dataframe based on a specific column
- 12)To sort the movies
- 13)Retrive the details of movies whoose runtime is in a specific range
- 14)Retrive a list of all the movies
- 15)To Append a new row
- 16)To terminate a row
- 17)Retrive numeric values of the coloumns
- 18)Visualisation of Data
- 19)To print the entire the database

Enter the chosen task by giving its index number 18





Possible Improvements:

There could be the following improvements in our project:

- 1. The python code could be written in a more concise manner as it would be easier to comprehend.
- 2. Comment lines could be incorporated to make the program more understandable by the examiner and user. By doing this, the user would understand what we want to convey through the program and its main idea.
- 3. The project quality could be enhanced by better connectivity within the program. This would enable the user to operate the program with much ease.
- 4. The use of a comment box where the user can leave their remarks would be a great help to us. This will indirectly help us as we can constructively use the remarks to polish up our program.
- 5. Our program could be made visually appealing and attractive with the use of graphics and graphical user interface.

Bibliography:

https://www.w3schools.com/python/python_ml_scatterplot.asp

https://stackoverflow.com/questions/

https://github.com/topics/music-database

https://matplotlib.org/