In [220...

import pandas as pd
import numpy as np

In [221...

ign_master = pd.read_csv(r"D:\PG-DAI\MachineLearning\Task Afternoon 9 Dec\ign_n.csv")

ign_master.tail(10)

Out[221...

	Unnamed: 0	score_phrase	title	url	platform	score	genre	editors_choice	release_year	release_month	release_day
18615	18615	Amazing	Zero Time Dilemma	/games/zero-time- dilemma/vita- 20039757	PlayStation Vita	9.2	Adventure	Υ	2016	6	29
18616	18616	Good	Batman: The Telltale Series Episode 1: Real	/games/batman- the-telltale-series- episode-1-re	PC	7.5	Adventure	N	2016	8	2
18617	18617	Great	Abzu	/games/abzu/ps4- 20019841	PlayStation 4	8.4	Adventure	N	2016	8	2
18618	18618	Amazing	Starbound	/games/starbound- 2016/pc-128879	PC	9.1	Action	Υ	2016	7	28
18619	18619	Good	Human Fall Flat	/games/human- fall-flat/pc- 20051928	PC	7.9	Puzzle, Action	N	2016	7	28
18620	18620	Good	Tokyo Mirage Sessions #FE	/games/fire- emblem-x-shin- megami-tensei/wii- u	Wii U	7.6	RPG	N	2016	6	29
18621	18621	Amazing	LEGO Star Wars: The Force Awakens	/games/lego-star- wars-the-force- awakens/ps4-20	PlayStation 4	9.0	Action, Adventure	Y	2016	6	29
18622	18622	Mediocre	Star Ocean: Integrity and Faithlessness	/games/star- ocean-5/ps4- 20035681	PlayStation 4	5.8	RPG	N	2016	6	28

		Unnamed:	score_phrase	title	url	platform	score	genre	editors_choice	release_year	release_month	release_day
	18623	18623	Masterpiece	Inside	/games/inside- playdead/xbox- one-121435	Xbox One	10.0	Adventure	Y	2016	6	28
	18624	18624	Masterpiece	Inside	/games/inside- playdead/pc- 20055740	РС	10.0	Adventure	Υ	2016	6	28
In [222	ign_m	naster.descr	ribe()									
Out[222		Unnamed: 0	score	release_year	release_month	release_da	У					
	count	18625.000000	18625.000000	18625.000000	18625.00000	18625.00000	0					
	mean	9312.000000	6.950459	2006.515329	7.13847	15.60386	6					
	std	5376.718717	1.711736	4.587529	3.47671	8.69012	8					
	min	0.000000	0.500000	1970.000000	1.00000	1.00000	0					
	25%	4656.000000	6.000000	2003.000000	4.00000	8.00000	0					
	50%	9312.000000	7.300000	2007.000000	8.00000	16.00000	0					
	75%	13968.000000	8.200000	2010.000000	10.00000	23.00000	0					
	max	18624.000000	10.000000	2016.000000	12.00000	31.00000	0					
In [223	ps3 =	ign_master	[ign_master['	platform'] =	= 'PlayStatio	n 3']						
In [224	ign_n	naster.value	_counts('scor	e_phrase')['	Great']							
Out[224	4773											
In [225		forms = ['Pl n_master[]	ayStation 3',	'PlayStation	4','Xbox 360	','Xbox One	e','PC	[']				
	phras	se = ['Amazi	ng','Great','	Okay']								

```
X_One= pd.DataFrame()
In [226...
          temp = []
          final = []
          for j in platforms:
              print(j)
              j = ign master[ign master['platform'] == j]
              for i in phrase:
                  print(i,j.value counts('score phrase')[i] )
                  temp.append(j.value counts('score phrase')[i])
              final.append(temp)
              temp = []
         PlayStation 3
         Amazing 181
         Great 379
         Okay 196
         PlayStation 4
         Amazing 55
         Great 83
         Okay 36
         Xbox 360
         Amazing 196
         Great 445
         Okay 256
         Xbox One
         Amazing 35
         Great 66
         Okay 29
          PC
         Amazing 351
         Great 967
         Okay 526
          Task1 = pd.DataFrame(final,columns=list(phrase)).T
In [227...
          # Task1 = pd.DataFrame(rows=list(platforms))
          Task1
          # Task1.index.names = [platforms]
Out[227...
                    0 1
                            2 3
```

Amazing 181 55 196 35 351

 O
 1
 2
 3
 4

 Great
 379
 83
 445
 66
 967

 Okay
 196
 36
 256
 29
 526

In [228... Task1.set_axis(platforms, axis=1, inplace=False)

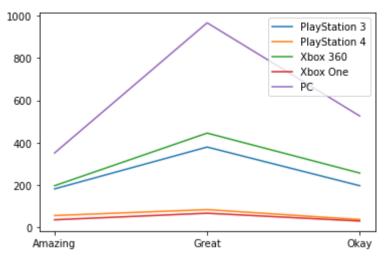
Out[228... PlayStation 3 PlayStation 4 Xbox 360 Xbox One PC 181 55 196 35 351 Amazing 379 83 66 967 Great 445 Okay 29 526 196 36 256

In [229... import matplotlib.pyplot as plt

Line Chart

In [230... plt.plot(Task1)
 plt.legend(platforms)

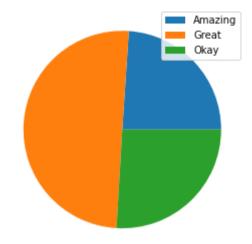
Out[230... <matplotlib.legend.Legend at 0x13a7d6442b0>



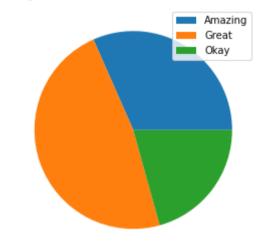
PieChart

```
for i in range(len(platforms)):
    f = plt.figure(figsize=(15,15))
    plt.subplot(2,3,i+1)
    plt.pie(Task1[i])
    print(platforms[i])
    plt.legend(phrase)
    plt.show()
```

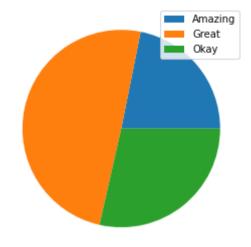
PlayStation 3



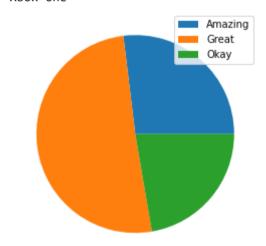
PlayStation 4



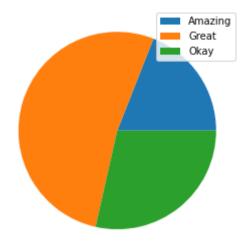
Xbox 360





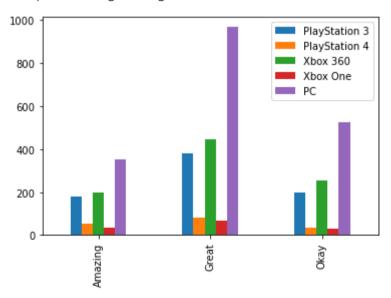


PC



In [232... Task1.plot.bar(legend = platforms).legend(platforms)

Out[232... <matplotlib.legend.Legend at 0x13a7df91ee0>



In [233... ign_master.head()

Out[233...

	Unnamed: 0	score_phrase	title	url	platform	score	genre	editors_choice	release_year	release_month	release_da
0	0	Amazing	LittleBigPlanet PS Vita	/games/littlebigplanet- vita/vita-98907	PlayStation Vita	9.0	Platformer	Y	2012	9	1.
1	1	Amazing	LittleBigPlanet PS Vita Marvel Super Hero E	/games/littlebigplanet- ps-vita-marvel-super- he	PlayStation Vita	9.0	Platformer	Υ	2012	9	1.
2	2	Great	Splice: Tree of Life	/games/splice/ipad- 141070	iPad	8.5	Puzzle	N	2012	9	1.
3	3	Great	NHL 13	/games/nhl-13/xbox- 360-128182	Xbox 360	8.5	Sports	N	2012	9	1
4	4	Great	NHL 13	/games/nhl-13/ps3- 128181	PlayStation 3	8.5	Sports	N	2012	9	1
# igu	n_master. n_master.	loc[ign_mast	cer['score']	<pre>> ign_master.score. <= ign_master.score</pre>	mean(), 'P		_				
# igu	n_master. n_master.	loc[ign_mast	cer['score']	<pre>> ign_master.score.</pre>	mean(), 'P		_				
# igu	n_master. n_master. n_master[Abo Abo Abo	loc[ign_mast	cer['score']	<pre>> ign_master.score.</pre>	mean(), 'P		_				
igi igi 0 1 2 3 4 186 186 186 186 186	n_master. n_master[Abo Abo Abo Abo 20 Abo 21 Abo 22 Bel 23 Abo 24 Abo	loc[ign_mast loc[ign_mast 'Performance ove Average ove Average	cer['score']	<pre>> ign_master.score <= ign_master.score</pre>	mean(), 'P		_				

```
ign master['Performance'].value counts()
In [239...
         Above Average
                           11373
Out[239...
         Below Average
                            7252
         Name: Performance, dtype: int64
          ign master[(ign master['platform'] == 'PC')].value counts('Performance')
In [240...
         Performance
Out[240...
         Above Average
                           2191
         Below Average
                           1179
         dtype: int64
In [241...
          Task2 plat = []
          Task2 rating = []
          for x in platforms:
              print(x,ign master['platform'] == x)].value counts('Performance'))
              T, Y = x,ign master[(ign master['platform'] == x)].value counts('Performance')
          #
                Task2.append(x,ign master[(ign master['platform'] == x)].value counts('Performance'))
              Task2 plat.append(T)
              Task2 rating.append(Y)
         PlayStation 3 Performance
         Above Average
                           889
         Below Average
                           467
         dtype: int64
         PlayStation 4 Performance
         Above Average
                           208
         Below Average
                            69
         dtype: int64
         Xbox 360 Performance
         Above Average
                           1021
         Below Average
                            610
         dtype: int64
         Xbox One Performance
         Above Average
                           155
         Below Average
                            53
         dtype: int64
         PC Performance
         Above Average
                           2191
         Below Average
                           1179
         dtype: int64
```

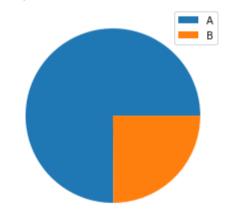
```
Task2_plat
In [242...
          ['PlayStation 3', 'PlayStation 4', 'Xbox 360', 'Xbox One', 'PC']
          Task2_DF = pd.DataFrame(Task2_rating)
In [243...
          Task2 DF= Task2 DF.set axis(platforms, axis=0, inplace=False)
In [244...
          Task2 DF['Above Average'] = (Task2 DF['Above Average'])*(100/18625)
In [245..
          Task2 DF['Below Average'] = (Task2 DF['Below Average'])*(100/18625)
In [246...
          Task2 DF= Task2 DF.T
In [252..
In [253...
           plt.plot(Task2 DF)
           plt.legend(platforms)
         <matplotlib.legend.Legend at 0x13a7dc9eb80>
           12
                                                    PlayStation 3
                                                    PlayStation 4
          10
                                                    Xbox 360
                                                    Xbox One
                                                     PC
            8
            2
                                                        Below Average
          Above Average
In [284...
           #Pie Chart
          for i in Task2_DF:
               print(i)
                f = plt.figure(figsize=(15,15))
                plt.subplot(2,3,i+1)
               plt.pie(Task2_DF[i])
```

```
plt.legend('AB')
# print(platforms[i])
# plt.legend("A","B")
# plt.legend("Above", "Below")
plt.show()
```

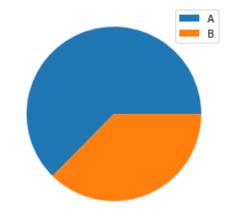
PlayStation 3



PlayStation 4

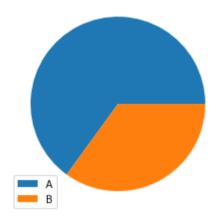


Xbox 360



Xbox One

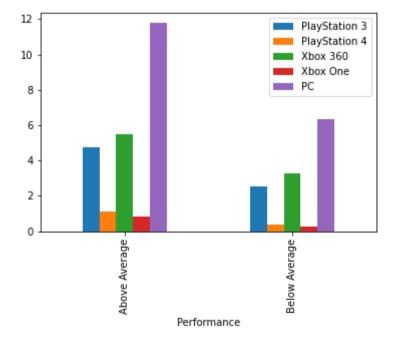
PC



In [279... #BarPlot

Task2_DF.plot.bar(legend = platforms).legend(platforms)

Out[279... <matplotlib.legend.Legend at 0x13a7df3e430>



In []:

In []: