DATA ESSENSTIAL PROJECT

Task-1

```
1 import pandas as pd
2 df=pd.read_csv("pubg - Dr. Darshan Ingle.csv")
3 df.head()
```

	Id	groupId	matchId	assists	boosts	damageDealt	DBN
0	2f262dd9795e60	78437bcd91d40e	d5db3a49eb2955	0	0	0.0	
1	a32847cf5bf34b	85b7ce5a12e10b	65223f05c7fdb4	0	0	163.2	
2	1b1900a9990396	edf80d6523380a	1cadec4534f30a	0	3	278.7	
3	f589dd03b60bf2	804ab5e5585558	c4a5676dc91604	0	0	191.9	
4	c23c4cc5b78b35	b3e2cd169ed920	cd595700a01bfa	0	0	100.0	

Task-2

```
1 df.dtypes
```

```
Id                 object
groupId            object
matchId            object
assists             int64
boosts              int64
damageDealt       float64
DBNOs               int64
headshotKills       int64
heals               int64
killPlace           int64
killPoints          int64
kills               int64
killStreaks         int64
longestKill       float64
matchDuration       int64
matchType          object
maxPlace            int64
numGroups           int64
rankPoints          int64
revives             int64
rideDistance      float64
roadKills           int64
swimDistance      float64
teamKills           int64
vehicleDestroys     int64
walkDistance      float64
weaponsAcquired     int64
winPoints           int64
```

```
winPlacePerc       float64
dtype: object
```

Task-3

```
1 df.describe()
```

	assists	boosts	damageDealt	DBNOs	headshotKills	he
count	10000.000000	10000.000000	10000.000000	10000.00000	10000.000000	10000.000
mean	0.234600	1.088500	129.211264	0.64400	0.221700	1.354
std	0.575149	1.703279	167.193945	1.09562	0.577046	2.629
min	0.000000	0.000000	0.000000	0.00000	0.000000	0.000
25%	0.000000	0.000000	0.000000	0.00000	0.000000	0.000
50%	0.000000	0.000000	83.805000	0.00000	0.000000	0.000
75%	0.000000	2.000000	185.325000	1.00000	0.000000	2.000
max	7.000000	18.000000	3469.000000	11.00000	14.000000	31.000

Task-4

```
1 avg = df["kills"].mean()
2 avg
```

```
0.9134
```

Task-5

```
1 99*df["kills"].sum()/100
```

```
9042.66
```

Task-6

```
1 df["kills"].max()
```

```
35
```

Task-7

```
1 df.columns
```

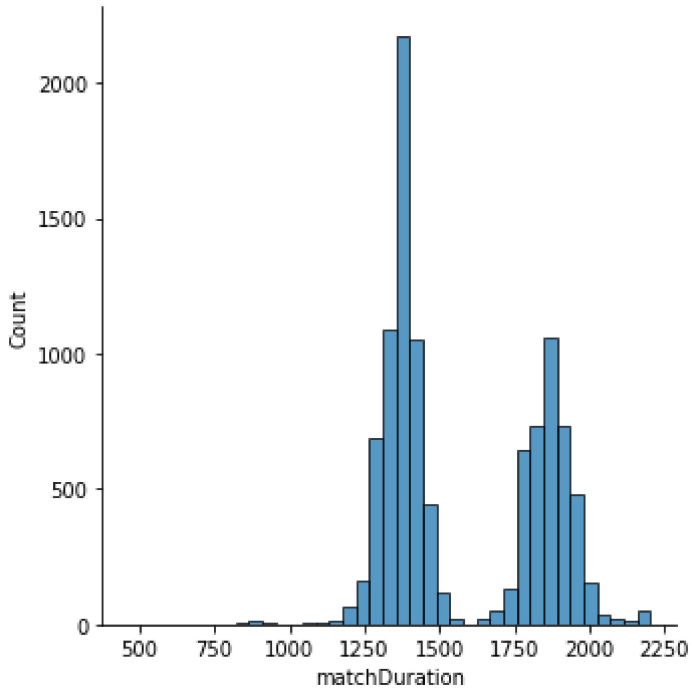
```
Index(['Id', 'groupId', 'matchId', 'assists', 'boosts', 'damageDealt', 'DBNOs',
```

```
       'headshotKills', 'heals', 'killPlace', 'killPoints', 'kills',
       'killStreaks', 'longestKill', 'matchDuration', 'matchType', 'maxPlace',
       'numGroups', 'rankPoints', 'revives', 'rideDistance', 'roadKills',
       'swimDistance', 'teamKills', 'vehicleDestroys', 'walkDistance',
       'weaponsAcquired', 'winPoints', 'winPlacePerc'],
      dtype='object')
```

Task-8

```
1 import seaborn as sns
2 sns.displot(df["matchDuration"])
```

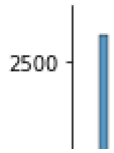
```
<seaborn.axisgrid.FacetGrid at 0x7f3e94dfb860>
```



Task-9

```
1 import seaborn as sns
2 sns.displot(df["walkDistance"])
```

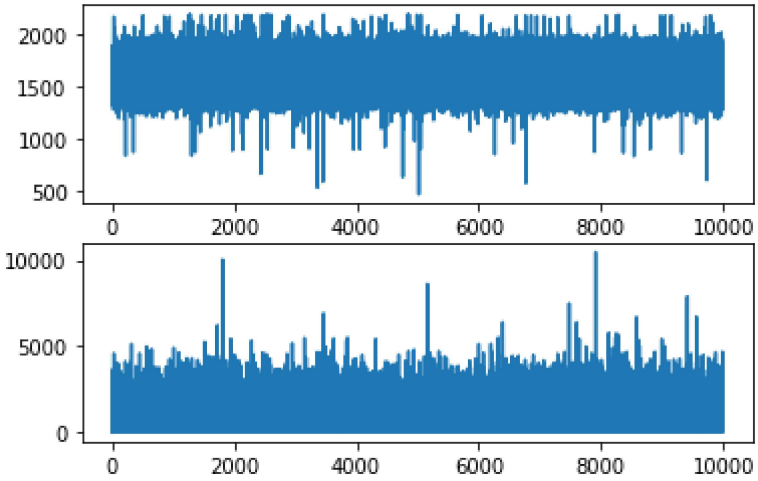
```
<seaborn.axisgrid.FacetGrid at 0x7f3e94dcfdd8>
```



Task-10

```
1 import matplotlib.pyplot as plt
2 plt.figure(1)
3 plt.subplot(211)
4 plt.plot(df["matchDuration"])
5 plt.subplot(212)
6 plt.plot(df["walkDistance"])
```

```
[<matplotlib.lines.Line2D at 0x7f3e902d0780>]
```



Task-11

```
1 import matplotlib.pyplot as plt
2 plt.figure(1)
3 plt.subplot(121)
4 plt.plot(df["matchDuration"])
5 plt.subplot(122)
6 plt.plot(df["walkDistance"])
```

```
[<matplotlib.lines.Line2D at 0x7f3e9020a1d0>]
```

Task-12

Task-13

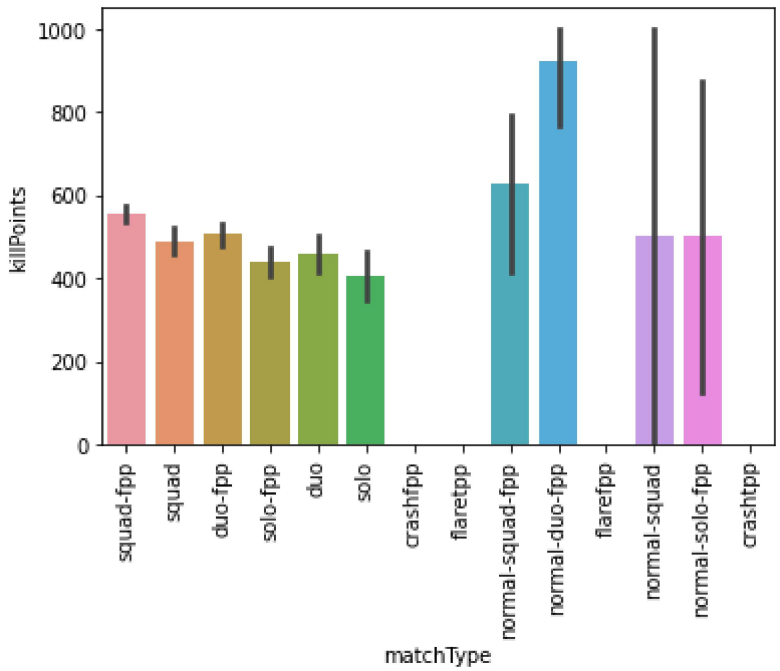
```
df["matchType"].unique()
```

```
array(['squad-fpp', 'squad', 'duo-fpp', 'solo-fpp', 'duo', 'solo',
       'crashfpp', 'flaretpp', 'normal-squad-fpp', 'normal-duo-fpp',
       'flarefpp', 'normal-squad', 'normal-solo-fpp', 'crashtpp'],
      dtype=object)
```

Task-14

```
import matplotlib.pyplot as plt
import seaborn as sb
sb.barplot(x="matchType",y="killPoints",data=df)
plt.xticks(rotation=90)
```

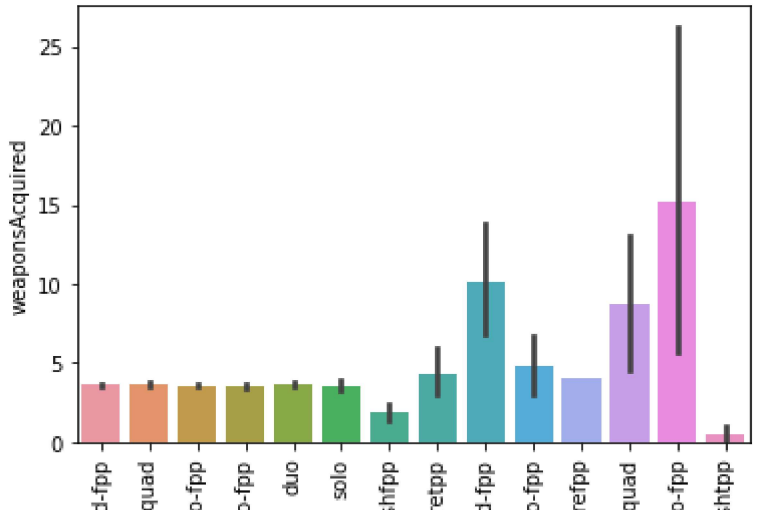
```
(array([ 0,  1,  2,  3,  4,  5,  6,  7,  8,  9, 10, 11, 12, 13]),
 <a list of 14 Text major ticklabel objects>)
```



Task-15

```
sb.barplot(x="matchType",y="weaponsAcquired",data=df)
plt.xticks(rotation=90)
```

```
(array([ 0,  1,  2,  3,  4,  5,  6,  7,  8,  9, 10, 11, 12, 13]),
 <a list of 14 Text major ticklabel objects>)
```

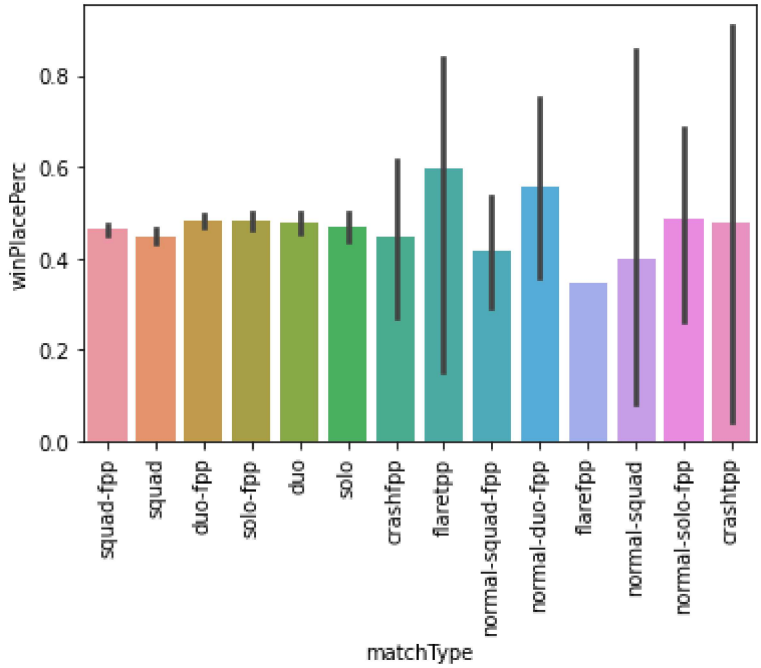


Task-16

Task-17

```
1 sb.barplot(x="matchType",y="winPlacePerc",data=df)
2 plt.xticks(rotation=90)
```

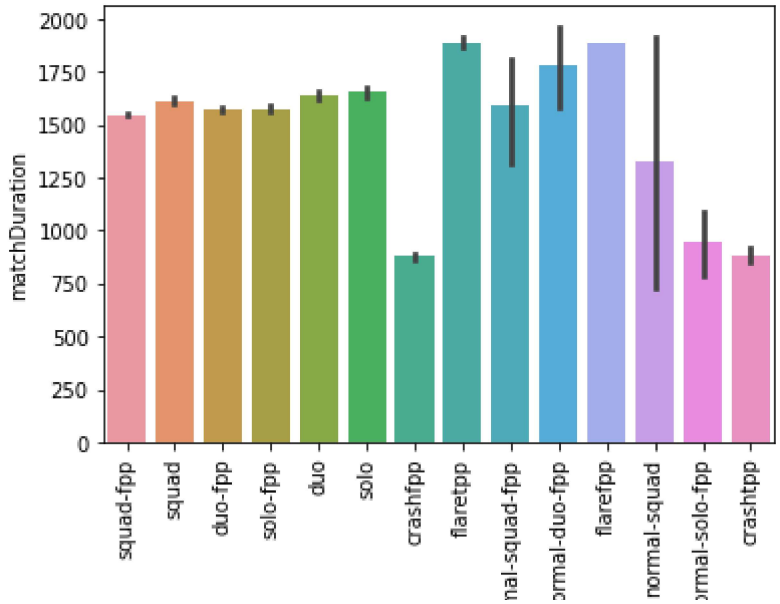
```
(array([ 0,  1,  2,  3,  4,  5,  6,  7,  8,  9, 10, 11, 12, 13]),
 <a list of 14 Text major ticklabel objects>)
```



Task-18

```
1 sb.barplot(x="matchType",y="matchDuration",data=df)
2 plt.xticks(rotation=90)
```

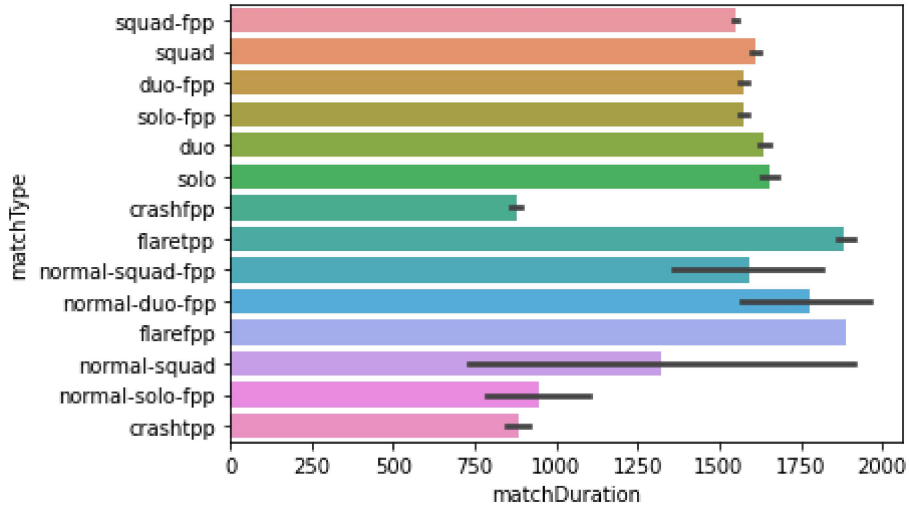
```
(array([ 0,  1,  2,  3,  4,  5,  6,  7,  8,  9, 10, 11, 12, 13]),
 <a list of 14 Text major ticklabel objects>)
```



Task-19

```
1 ax = sns.barplot(x='matchDuration', y='matchType', data=df)
2 ax.set_xlabel('matchDuration')
```

```
Text(0.5, 0, 'matchDuration')
```



Task-20

```
1 df["kill"]=df["headshotKills"]+df["teamKills"]+df["roadKills"]
2 df.head()
```

	Id	groupId	matchId	assists	boosts	damageDealt	DBN
0	2f262dd9795e60	78437bcd91d40e	d5db3a49eb2955	0	0	0.0	
2	1b1900a9990396	edf80d6523380a	1cadaa4534f30a	0	3	278.7	

Task-21

```
1 df['winPlacePerc'].round(decimals=2)
```

4	c23c4cc5b78b35	b3e2cd169ed920	cd595700a01bfa	0	0	100.0	