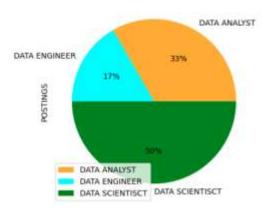
FUNDAMENTALS OF DATA SCIENCE

REG NO: 230701181

Experiment 1.A

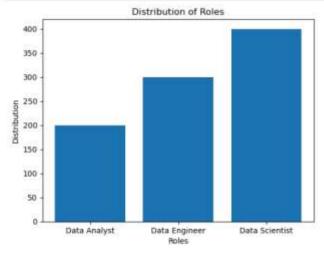
```
In [12]: import pandas as pd
import matplotlib.pyplot as plt
    df-pd.Dataframo({'MOLES':['DATA EMATHEER', 'DATA AWALYST', 'DATA SCIENTISCT'], 'POSTIMOS':[lse,280,380]})
    colors = ['orange', 'cyan', 'green']
    df.groupby(['MOLES']).sum().plot(kind='pio',y='POSTIMOS',autopct='%1.0f%%',colors=colors)

Out[12]: import pandas as pd
import matplotlib.pyplot as plt
    df-pd.Dataframo({'MOLES':['DATA EMATHEER', 'DATA AWALYST', 'DATA SCIENTISCT'], 'POSTIMOS':[lse,280,380]})
    colors = ['orange', 'cyan', 'green']
    df.groupby(['MOLES':['DATA EMATHEER', 'DATA AWALYST', 'DATA SCIENTISCT'], 'POSTIMOS':[lse,280,380]})
```



Experiment 1.B

```
In [13]: import pandas as pd
import matplotlib.pyplot as plt
jobs' Data Analyst', Data Engineer', Data Scientist']
data=[200,300,400]
plt.bar(job,data)
plt.ritle("Distribution of Roles")
plt.ylabel("Roles")
plt.ylabel("Distribution")
plt.show()
```



Experiment 1.C

```
In [3]: import pandas as pd
data=('NAMES':('NAME','NAME'),'ID':(178,179,177))
structured_datampd.DataFrame(data)

#MAMES ID
#MAMID 178
#MAMID 178
#MAMID 179
#MAMID 177

In [7]: n=[2,3,4,5]
print('The numbers are:')
for 1 in n:
    print(1,and=',')

The numbers are:
2,3,4,5,

In [5]: import pandas as pd
data=('NAMES':('NAME'),'NAME'),'ID':(178,179,177))
#MAMID 178
#MAMES ID
#MAMID 178
#MAMID 177
#MAMID 177
#MAMID 178
#MAMID 177
#MAMID 177
#MAMID 178
#MAMID 177
#MAMID 177
#MAMID 177
#MAMID 177
#MAMID 177
#MAMID 178
#MAMID 177
#MAMID 17
```

Experiment 1.D