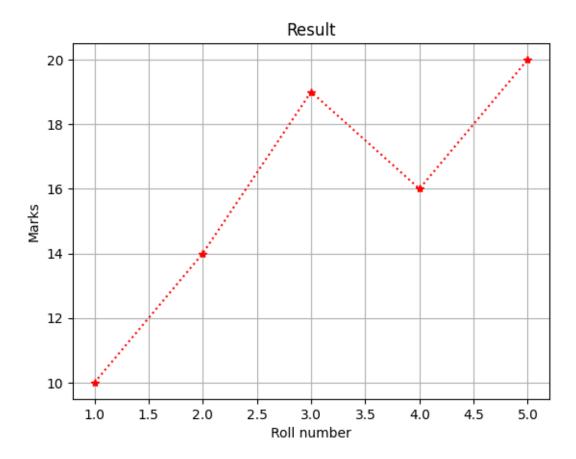
Name: Yasmeen Fatima

Roll no: 569

PRN no: 202201030020

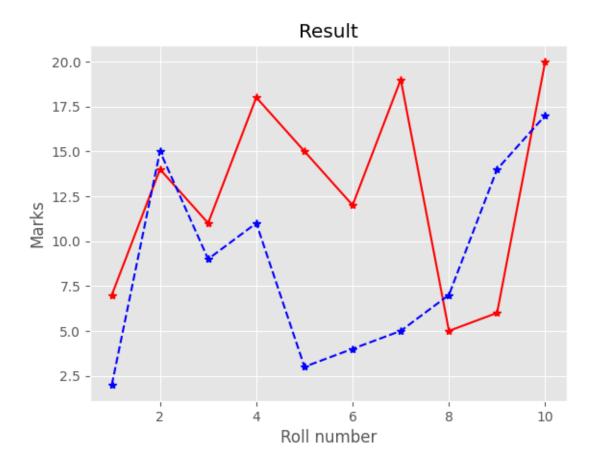
from matplotlib import pyplot as plt

```
x=[1,2,3,4,5]
y=[10,14,19,16,20]
plt.plot(x,y,"*",color="red",linestyle=":")
plt.title("Result")
plt.xlabel("Roll number")
plt.ylabel("Marks")
plt.style.use("ggplot")
plt.grid()
plt.show()
```



```
roll_no=[1,2,3,4,5,6,7,8,9,10]
E_div=[7,14,11,18,15,12,19,5,6,20]
```

```
A_div=[2,15,9,11,3,4,5,7,14,17]
plt.plot(roll_no,E_div,"*",color="red",linestyle="solid")
plt.plot(roll_no,A_div,"*",color="blue",linestyle="dashed")
plt.title("Result")
plt.xlabel("Roll number")
plt.ylabel("Marks")
plt.show()
```

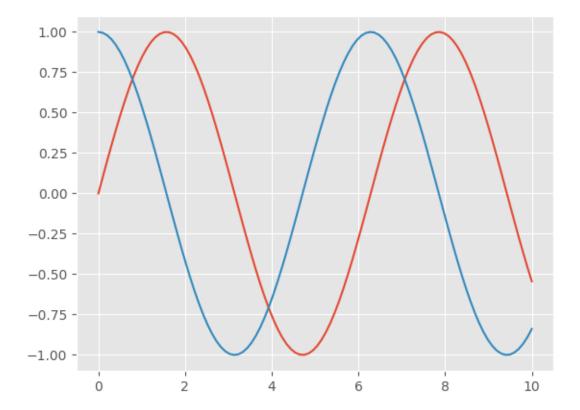


```
import numpy as np
```

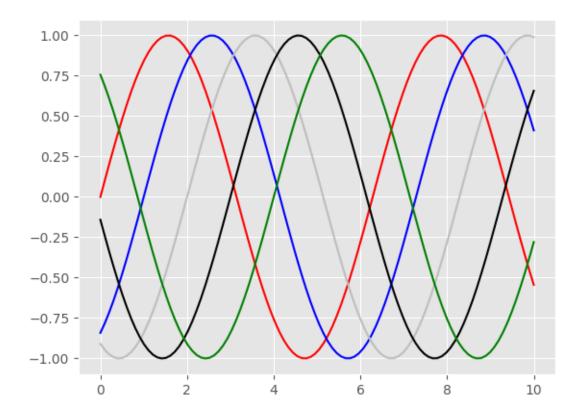
```
from matplotlib import style
from matplotlib import pyplot as plt
```

```
x=np.linspace(0,10,100)
fig=plt.figure()
```

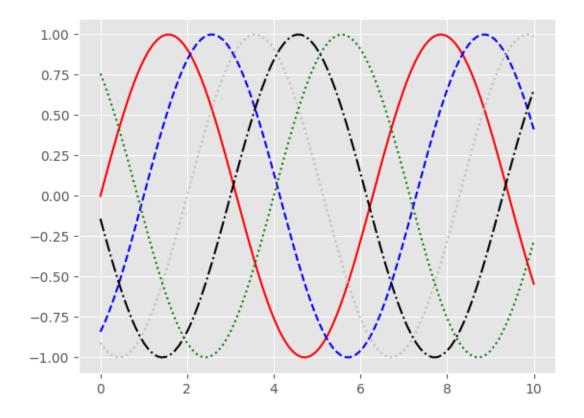
```
plt.plot(x,np.sin(x))
plt.plot(x,np.cos(x))
plt.show()
```



```
plt.plot(x,np.sin(x-0),color="red")
plt.plot(x,np.sin(x-1),color="blue")
plt.plot(x,np.sin(x-2),color="0.75")
plt.plot(x,np.sin(x-3),color="black")
plt.plot(x,np.sin(x-4),color="g")
```

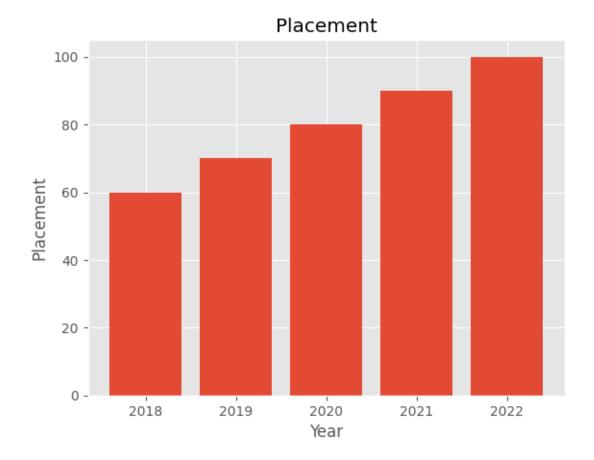


```
plt.plot(x,np.sin(x-0),color="red",linestyle="solid")
plt.plot(x,np.sin(x-
1),color="blue",linestyle="dashed")
plt.plot(x,np.sin(x-
2),color="0.75",linestyle="dotted")
plt.plot(x,np.sin(x-
3),color="black",linestyle="dashdot")
plt.plot(x,np.sin(x-4),color="g",linestyle="dotted")
```

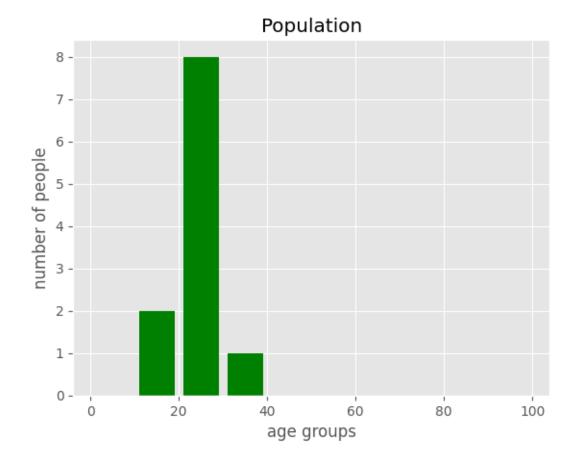


import matplotlib.pyplot as plt

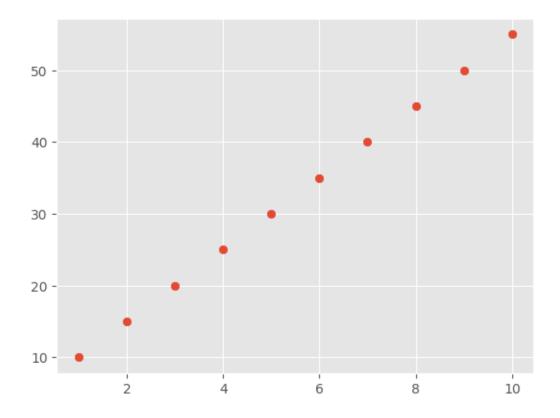
```
year=[2018,2019,2020,2021,2022]
placement=[60,70,80,90,100]
plt.bar(year,placement)
plt.title("Placement")
plt.xlabel("Year")
plt.ylabel("Placement")
plt.show()
```



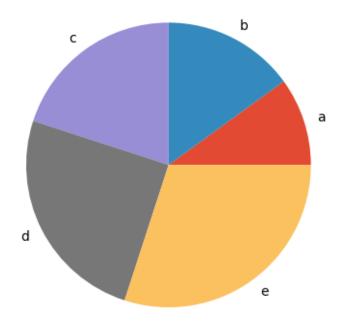
```
population_age=[18,19,20,21,24,25,26,27,28,29,30]
bins=[0,10,20,30,40,50,60,70,80,90,100,]
plt.hist(population_age,bins,rwidth=0.8,color="green")
plt.title("Population")
plt.ylabel("number of people")
plt.xlabel("age groups")
plt.xlabel("age groups")
```



```
x=[1,2,3,4,5,6,7,8,9,10]
y=[10,15,20,25,30,35,40,45,50,55]
plt.scatter(x,y)
```



```
y=np.array([10,15,20,25,30])
mylabels=["a","b","c","d","e"]
plt.pie(y,labels=mylabels)
plt.show()
```



import pandas as pd
import numpy as np

data=pd.read_csv("/content/grainsales.csv")
print(data)

GrainName Sales	5	State	City Months	Year	
0	Ragi	Maharashtra	Nagpur	JAN	2023
1 1500000	Bajra	Panjab	Amritsar	FEB	2023
2 1000000	Ragi	Maharashtra	Nagpur	JAN	2023
3 1500000	Bajra	Panjab	Amritsar	FEB	2023
4 1000000	Ragi	Maharashtra	Nagpur	JAN	2023
5 1500000	Bajra	Panjab	Amritsar	FEB	2023
6	Oats	Hariyana	Gurugram	MARCH	2023
2000000 7 2500000	Sattu	Gujarat	Surat	APRIL	2023

8 3000000	Sooji	Tami	l Nadu	Madı	ırai	MAY	2023
9 Brown 3500000	rice	Tel	angana	Hydera	abad	JUNE	2023
10	Wheat	West	Bengol	Asan	sole	JULY	2023
11 4500000	Corn		UP	Kar	npur	AUG	2023
12 1000000	Ragi	Mahar	rashtra	Nag	gpur	JAN	2023
13 1500000	Bajra		Panjab	Amrit	tsar	FEB	2023
14 2000000	Oats	На	nriyana	Guru	gram	MARCH	2023
15 : 2500000	Sattu	G	Gujarat	Sı	ırat	APRIL	2023
16 3000000	Sooji	Tami	l Nadu	Madı	ırai	MAY	2023
17 Brown 3500000	rice	Tel	angana	Hydera	abad	JUNE	2023
18 4000000	Wheat	West	Bengol	Asans	sole	JULY	2023
19 4500000	Corn		UP	Kar	npur	AUG	2023
20 3000000	Sooji	Tami	l Nadu	Madı	ırai	MAY	2023
21 Brown 3500000	rice	Tel	angana	Hydera	abad	JUNE	2023
22 4000000	Wheat	West	Bengol	Asans	sole	JULY	2023
23 4500000	Corn		UP	Kar	npur	AUG	2023
25 Brown ric	ce Tel	cashtra Langana Bengol	Nagpur Hyderabad Asansole	JUNE	2023 2023 2023	1000000 3500000 4000000	

data.head(5)

GrainName State City Months Year Sales

O Ragi Maharashtra Nagpur JAN 2023 1000000

GrainName	State	City	Months	Year	Sales	
1	Bajra	Panjab	Amritsar	FEB	2023	1500000
2	Ragi	Maharashtra	Nagpur	JAN	2023	1000000
3	Bajra	Panjab	Amritsar	FEB	2023	1500000
4	Ragi	Maharashtra	Nagpur	JAN	2023	1000