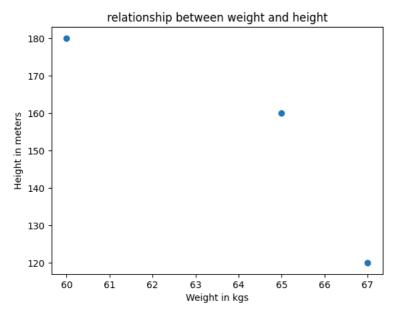
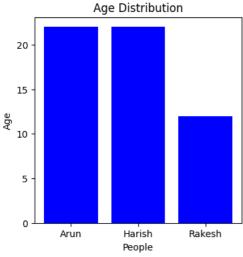
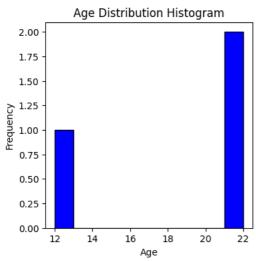
```
import numpy as np
lst=[10,20,40]
array1=np.array(lst)
print("list = ",lst)
print("array =",array1)
type(1st)
type(array1)
     list = [10, 20, 40]
array = [10 20 40]
     numpy.ndarray
import numpy as np
array1=np.array([10,20,30])
array2=np.array([12,18,24])
print("array2 multiplied by array1: ",array1*array2)
print("array2 divided by array1: ",array2/array1)
print("array2 power offed by array1",array2**array1)
print("Addition of Two arrays: ",array1+array2)
     array2 multiplied by array1: [120 360 720] array2 divided by array1: [1.2 0.9 0.8]
     array2 power offed by array1 [
                                             61917364224 4981704660114997248
                                                                                                  0]
     Addition of Two arrays: [22 38 54]
import numpy as np
array1=np.array([10,20,30])
print("sine:",np.sin(array1))
print("Natural algorithm: ",np.log(array1))
print("Base 10: ",np.log10(array1))
print("Base 2: ",np.log2(array1))
     sine: [-0.54402111 0.91294525 -0.98803162]
     Natural algorithm: [2.30258509 2.99573227 3.40119738]
     Base 10: [1.
                           1.30103 1.47712125]
     Base 2: [3.32192809 4.32192809 4.9068906 ]
import matplotlib.pyplot as plt
people = ['Arun','Harish','Rakesh',]
age=[22,22,12]
weight=[65,67,60]
height=[160,120,180]
# scatter plot
plt.scatter(weight,height)
plt.title("relationship between weight and height")
plt.ylabel("Height in meters")
plt.xlabel("Weight in kgs")
plt.show()
# bar chart
plt.figure(figsize=(4, 4))
plt.bar(people, age, color='blue')
plt.xlabel('People')
plt.ylabel('Age')
plt.title('Age Distribution')
plt.show()
#Histogram
plt.figure(figsize=(4, 4))
plt.hist(age, bins=10, color='blue', edgecolor='black')
plt.xlabel('Age')
plt.ylabel('Frequency')
plt.title('Age Distribution Histogram')
plt.show()
```







import pandas as pd
a=pd.read\_excel("dataset.xlsx")

	S.No	Name	Age	Weight	Height	
0	1	Arun	21	65	172	ıl.
1	2	Harish	19	55	168	
2	3	JD	25	63	155	
3	4	Hemanth	38	69	169	
4	5	Rajesh	19	55	160	

import pandas as pd
data2=pd.read\_csv("dataset.csv")
data2

	S.No	Name	Age	Weight	Height	
0	1	Arun	21	65	172	ıl.
1	2	Harish	19	55	168	
2	3	JD	25	63	155	
3	4	Hemanth	38	69	169	
4	5	Rajesh	19	55	160	

import pandas as pd
data3=pd.read\_table("notepad.txt")
data3

	S.No	Name	Age	Weight	Height	$\blacksquare$
0	1	Arun	21	65	172	ıl.
1	2	Harish	19	55	168	
2	3	JD	25	63	155	
3	4	Hemanth	38	69	169	
4	5	Rajesh	19	55	160	

import pandas as pd
url = "https://drive.google.com/file/d/1qSF5IZxb2keM2mBfYZud4krGNcfTM65x/view?usp=drive\_link"
def\_url=pd.read\_csv("dataset.csv")
def\_url

	S.No	Name	Age	Weight	Height	$\blacksquare$
0	1	Arun	21	65	172	ılı
1	2	Harish	19	55	168	
2	3	JD	25	63	155	
3	4	Hemanth	38	69	169	
4	5	Rajesh	19	55	160	