

Aim: to create a python program that generates a scatter plot comparing weights on heights for three different groups

pseudo code:

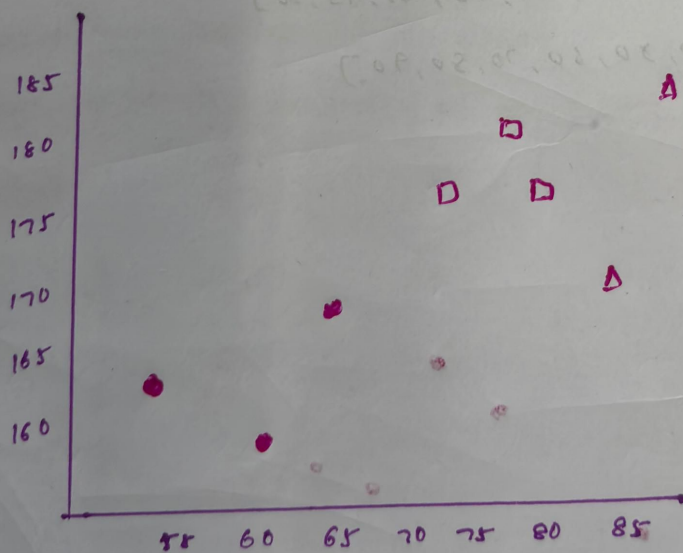
- 1. import matplotlib.pyplot for plotting
- 2. use different colors or markers to represent each group
- 3. use plt.scatter() to create scatter plot for each group with weights on the x-axis and heights on the y-axis
- 4. Display the scatter plot using plt.show()

sample input:

group_weight = [55, 60, 65, 62, 58]

group_height = [160, 165, 162, 168, 159]

sample output:



Result:

This code was executed successfully and we got the output.

```

import matplotlib.pyplot as plt
import numpy as np
weight1=[67,57.2,59.6,59.64,55.8,61.2,60.45,61,56.23,56]
height1=[101.7,197.6,98.3,125.1,113.7,157.7,136,148.9,125.3,114.9]
weight2=[61.9,64,62.1,64.2,62.3,65.4,62.4,61.4,62.5,63.6]
height2=[152.8,155.3,135.1,125.2,151.3,135,182.2,195.9,165.1,125.1]
weight3=[68.2,67.2,68.4,68.7,71,71.3,70.8,70,71.1,71.7]
height3=[165.8,170.9,192.8,135.4,161.4,136.1,167.1,235.1,181.1,177.3]
weight=np.concatenate((weight1,weight2,weight3))
height=np.concatenate((height1,height2,height3))
plt.scatter(weight, height, marker='*', color=['blue'])
plt.xlabel('weight', fontsize=16)
plt.ylabel('height', fontsize=16)
plt.title('Group wise Weight vs Height scatter plot',fontsize=20)
plt.show()

```

Group wise Weight vs Height scatter plot

