Exp-35

Aim: To create a python program that generates a scatter plot comparing two subject marks for 10 students

pseudocode:

- import matplotlib.pyplot for plotting
- Define the marks data for mathematics and science for 10 students
- use plt.scatter() to create a scatter plot with mathematics marks on the x-axis and science on y-axis
- set the title of the plot to "comparison of marks in mathematics and Science".
- Display the scatter plot

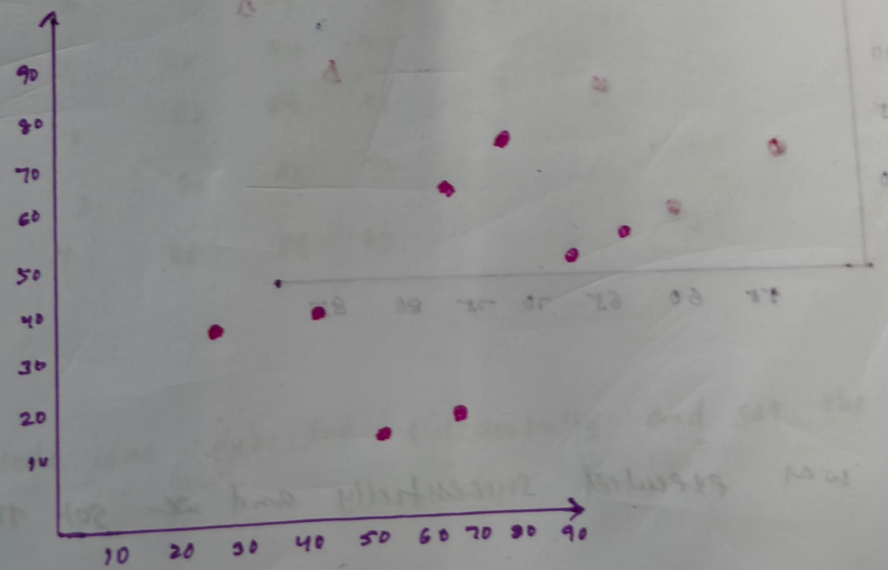
Sample input:

maths_mark = [88, 92, 80, 89, 100, 80, 60, 100, 80]

science_mark = [35, 79, 79, 48, 100, 88, 32, 45, 20]

mark = [10, 20, 30, 40, 50, 60, 70, 80, 90]

sample output:



Result:

This code was successfully executed and got the output

```python
import matplotlib.pyplot as plt
# Test data
math_marks = [88, 92, 80, 89, 100, 80, 60, 100, 80, 34]
science_marks = [35, 79, 79, 48, 100, 88, 32, 45, 20, 30]
marks_range = [10, 20, 30, 40, 50, 60, 70, 80, 90, 100]
# Creating the scatter plot
plt.scatter(math_marks, science_marks, color='blue', marker='o')
# Adding labels and title
plt.xlabel("Mathematics Marks")
plt.ylabel("Science Marks")
plt.title("Comparison of Mathematics and Science Marks")
# Setting range for x and y axes
plt.xticks(marks_range)
plt.yticks(marks_range)
# Displaying the plot
plt.show()
```