# Program6

BCS358D

# Linear Plotting using Matplotlib

Write a Python program to illustrate Linear Plotting using Matplotlib.

```
import matplotlib.pyplot as plt


# Hypothetical data: Run rate in an T20 cricket match
overs = [0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20]
runs_scored =
[0,7,12,20,39,49,61,83,86,97,113,116,123,137,145,163,172,192,198,198,
203]


# Create a linear plot
plt.plot(overs, runs_scored)
```

```
# Add labels and title
plt.xlabel('Overs')
plt.ylabel('Runs scored')
plt.title('Run scoring in an T20 Cricket Match')

# Display the plot
plt.grid(True)
plt.show()
```

**Linear Plotting with line formatting using Matplotlib**

Write a Python program to illustrate liner plotting with line formatting using Matplotlib.

```
import matplotlib.pyplot as plt


# Hypothetical data: Run rate in an T20 cricket match

overs = [0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20]

runs_scored =
[0,7,12,20,39,49,61,83,86,97,113,116,123,137,145,163,172,192,198
,198,203]


# Create a linear plot

plt.plot(overs, runs_scored, marker='X',
linestyle='dashed',color='red', linewidth=2, markerfacecolor='blue',
markersize=8)
```

```
# Add labels and title
plt.xlabel('Overs', color = 'green')
plt.ylabel('Runs scored')
plt.title('Run scoring in an T20 Cricket Match')

# Display the plot
plt.grid(True)
plt.show()
```