

**PRACTICAL NO. 4**

**AIM:** Using Matplotlib Library print the first letter of your name.

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a)write a program to define structure and pointers.

**THEORY:**

In this program, I've defined the data points for the letter "H" and plotted them using Matplotlib's plot function. I've then set the axis limits and hidden the ticks, added a title, and displayed the plot using Matplotlib's show function.

**Code:**

```
import matplotlib.pyplot as plt

import numpy as np

# Define the data points to be plotted
x = np.array([0, 0, 0.3, 0.3, 0.7, 0.7, 1, 1])
y = np.array([0, 1, 1, 0.4, 0.4, 1, 1, 0])

# Create the plot and add the data points
fig, ax = plt.subplots()
ax.plot(x, y, 'k', linewidth=3)

# Set the axis limits and hide the ticks
ax.set_xlim(-0.2, 1.2)
```

```
ax.set_ylim(-0.2, 1.2)
```

```
ax.set_xticks([])
```

```
ax.set_yticks([])
```

```
# Add a title and show the plot
```

```
ax.set_title("H")
```

```
plt.show()
```

### **CONCLUSION:**

Thus we have successfully executed programs .