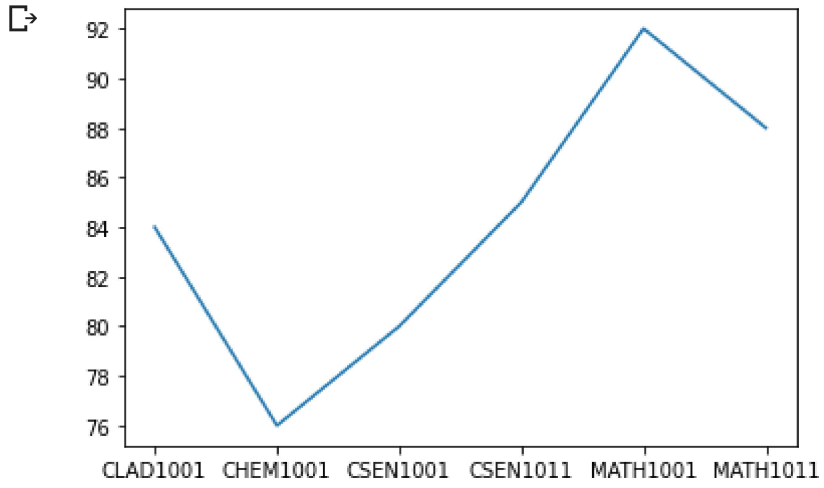
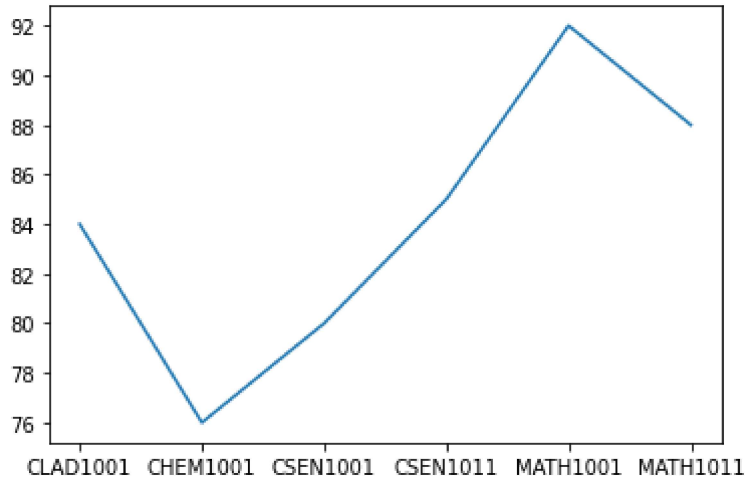
```
###pyplot
import matplotlib.pyplot as plt
import numpy as np

xpoints = np.array(['CLAD1001','CHEM1001','CSEN1001','CSEN1011','MATH1001','MATH1011'])
ypoints = np.array([84,76,80,85,92,88,])
plt.plot(xpoints, ypoints)
plt.show()
```

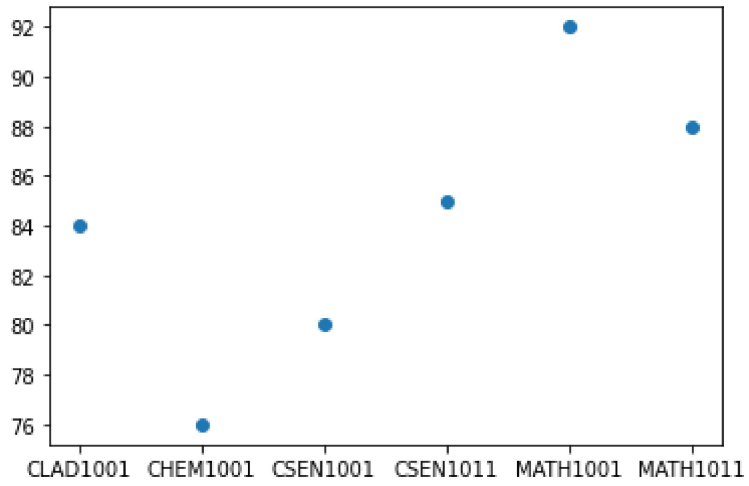



```
import matplotlib.pyplot as plt
import numpy as np

xpoints = np.array(['CLAD1001','CHEM1001','CSEN1001','CSEN1011','MATH1001','MATH1011'])
ypoints = np.array([84,76,80,85,92,88,])

plt.plot(xpoints, ypoints)
plt.show()
###plotting
```

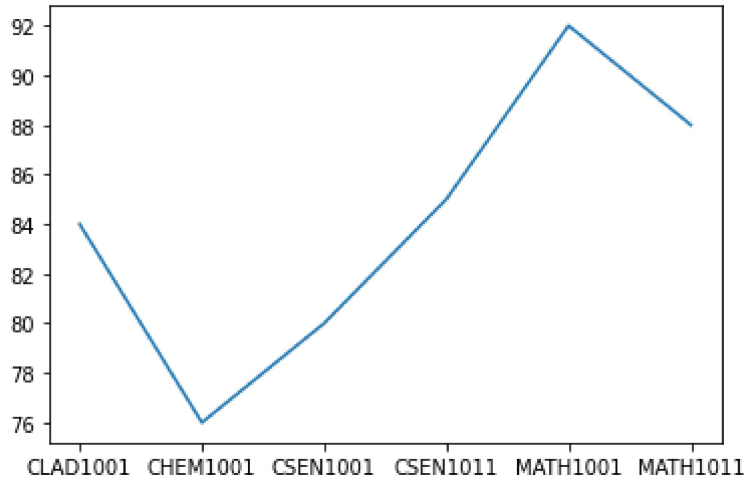



```
import matplotlib.pyplot as plt
import numpy as np

xpoints = np.array(['CLAD1001','CHEM1001','CSEN1001','CSEN1011','MATH1001','MATH1011'])
ypoints = np.array([84,76,80,85,92,88,])
```

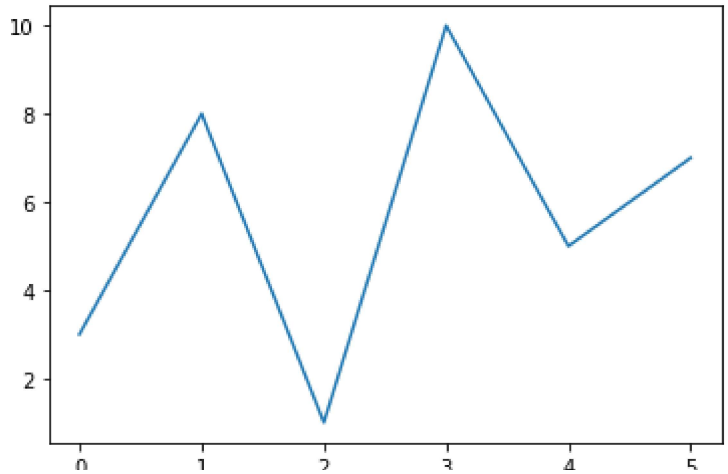
```
plt.plot(xpoints, ypoints, 'o')
plt.show()
###plotting
```



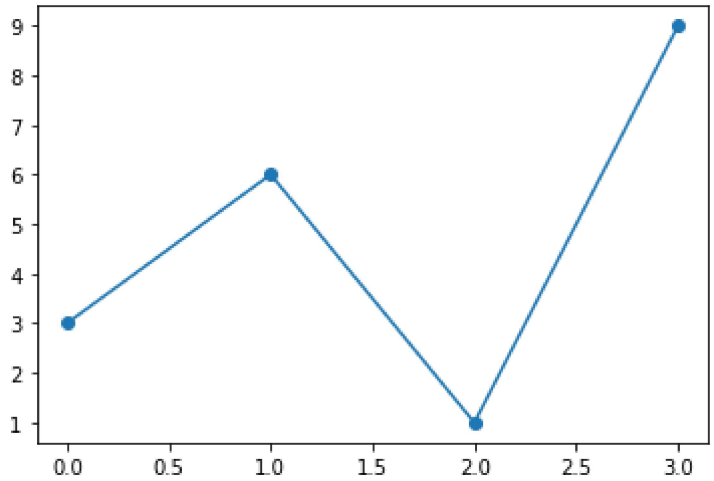

```
import matplotlib.pyplot as plt
import numpy as np

xpoints = np.array(['CLAD1001','CHEM1001','CSEN1001','CSEN1011','MATH1001','MATH1011'])
ypoints = np.array([84,76,80,85,92,88,])

plt.plot(xpoints, ypoints)
plt.show()
###plotting
```




```
import matplotlib.pyplot as plt
import numpy as np

ypoints = np.array([3, 8, 1, 10, 5, 7])

plt.plot(ypoints)
plt.show()
###plotting
```



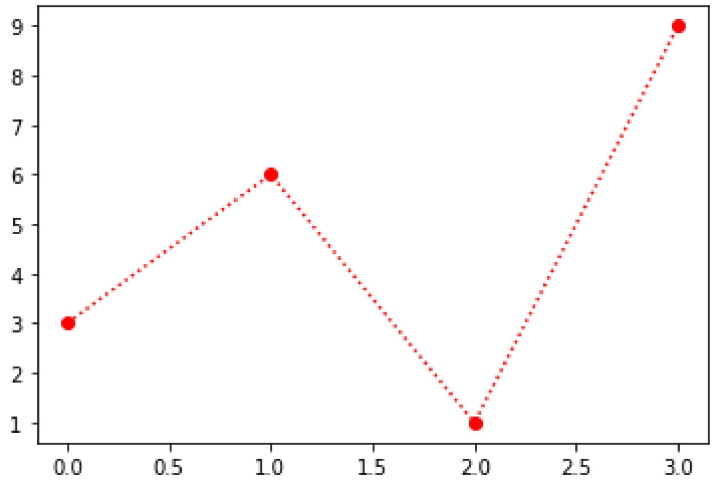

```
###markers1
import matplotlib.pyplot as plt
import numpy as np

ypoints = np.array([3, 6, 1, 9])

plt.plot(ypoints, marker = 'o')
plt.show()
```



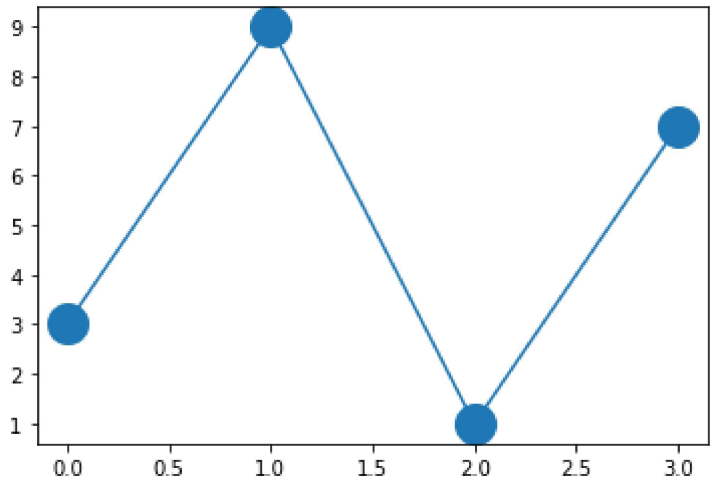

```
...
plt.plot(ypoints, marker = '*')
...
###markers 2
```

```
Ellipsis
```

```
import matplotlib.pyplot as plt
import numpy as np

ypoints = np.array([3, 6, 1, 9])

plt.plot(ypoints, 'o:r')
plt.show()
###markers 3
```

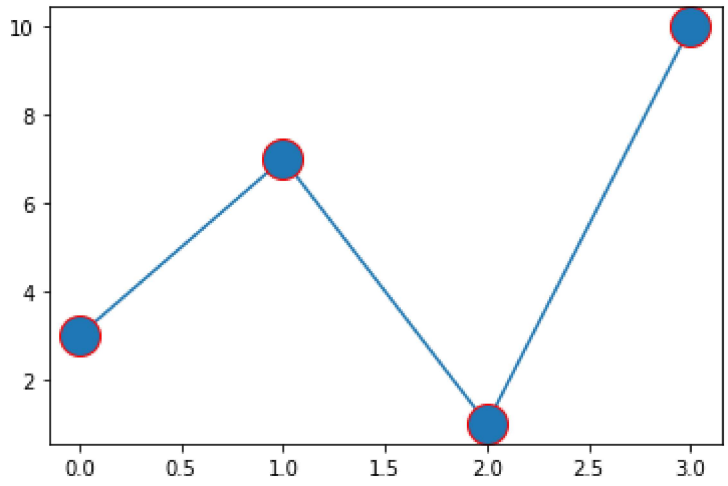



```
import matplotlib.pyplot as plt
import numpy as np

ypoints = np.array([3, 9, 1, 7])

plt.plot(ypoints, marker = 'o', ms = 20)
plt.show()
###markers 4
```

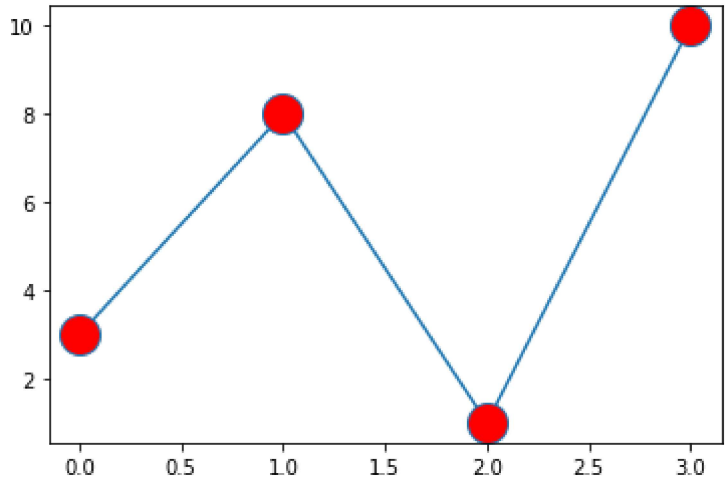



```
import matplotlib.pyplot as plt
import numpy as np

ypoints = np.array([3, 7, 1, 10])
```

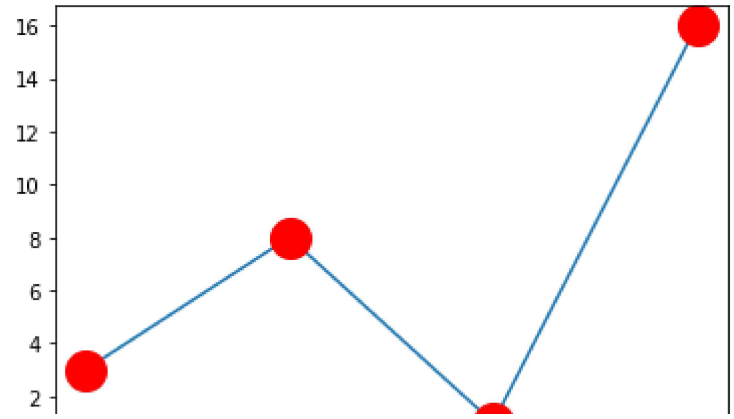
```
plt.plot(ypoints, marker = 'o', ms = 20, mec = 'r')
plt.show()
###markers 5
```




```
import matplotlib.pyplot as plt
import numpy as np

ypoints = np.array([3, 8, 1, 10])

plt.plot(ypoints, marker = 'o', ms = 20, mfc = 'r')
plt.show()
###markers 6
```

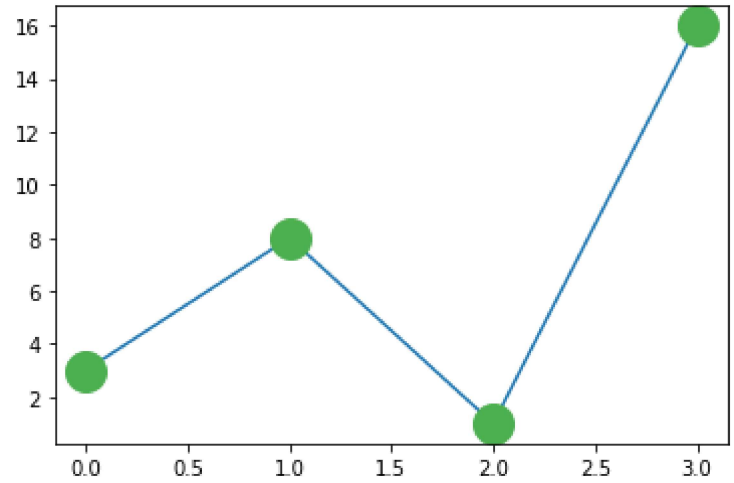



```
import matplotlib.pyplot as plt
import numpy as np

ypoints = np.array([3, 8, 1, 16])

plt.plot(ypoints, marker = 'o', ms = 20, mec = 'r', mfc = 'r')
plt.show()
###markrss 7
```



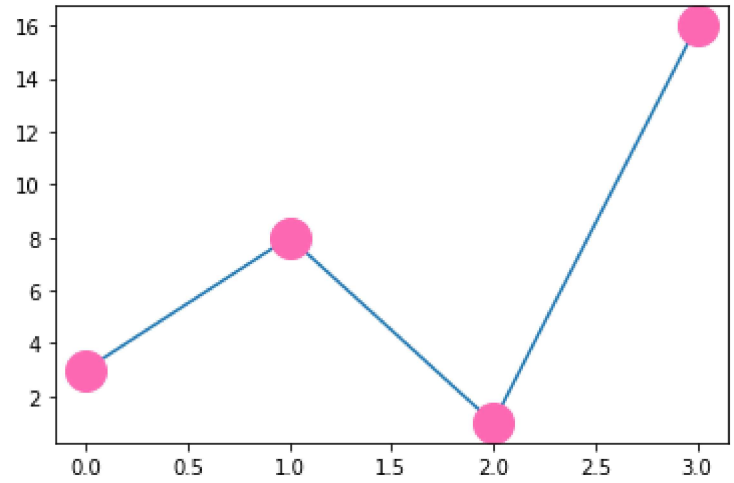

```
...
plt.plot(ypoints, marker = 'o', ms = 20, mec = '#4CAF50', mfc = '#4CAF50')
...
###markers 8
```

Ellipsis



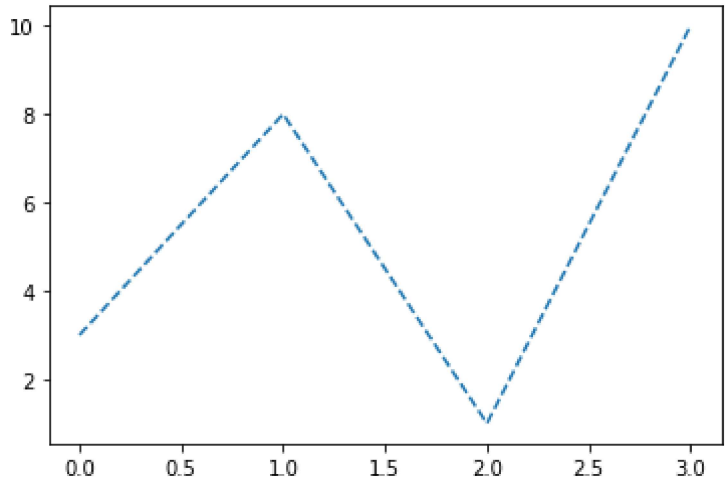

```
...
plt.plot(ypoints, marker = 'o', ms = 20, mec = 'hotpink', mfc = 'hotpink')
...
###markers 9
```

Ellipsis



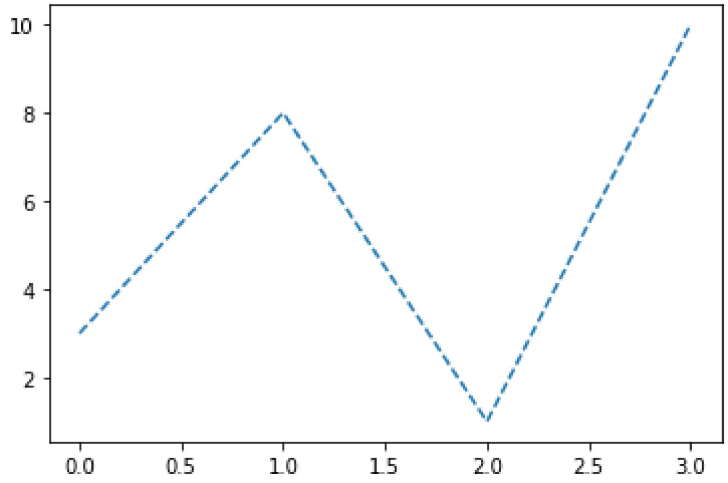

```
import matplotlib.pyplot as plt
```

```
import numpy as np

ypoints = np.array([3, 8, 1, 10])

plt.plot(ypoints, linestyle = 'dashed')
plt.show()
###LINE 1
```




```
plt.plot(ypoints, linestyle = 'dashed')
###LINE 2
```

```
[<matplotlib.lines.Line2D at 0x7f08aa186690>]
```

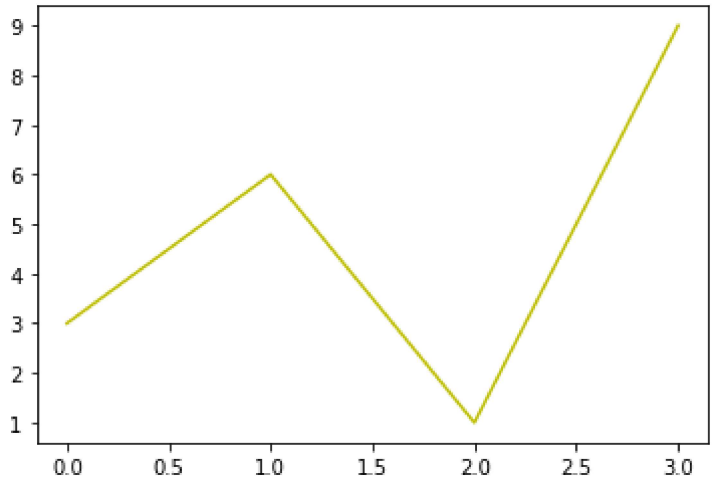



```
plt.plot(ypoints, ls = ':')
###LINE 3
```

```
[<matplotlib.lines.Line2D at 0x7f08aa2aa6d0>]
```

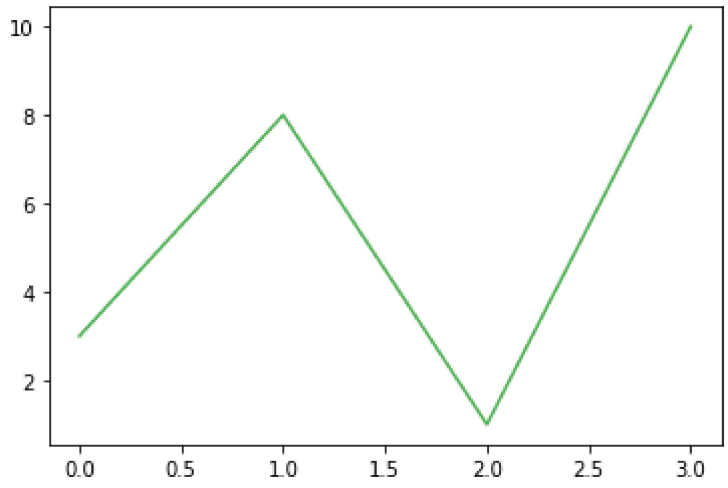

```
import matplotlib.pyplot as plt
import numpy as np

ypoints = np.array([3, 6, 1, 9])

plt.plot(ypoints, color = 'Y')
plt.show()
###LINE 4
```

```
/usr/local/lib/python3.7/dist-packages/IPython/core/pylabtools.py:125: MatplotlibDepr
  fig.canvas.print_figure(bytes_io, **kw)
```



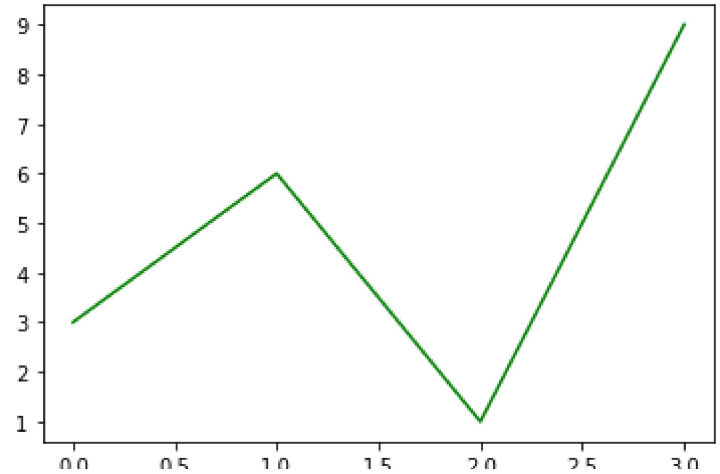

```
...
plt.plot(ypoints, c = '#4CAF50')
...
###LINE 5
```

```
Ellipsis
```

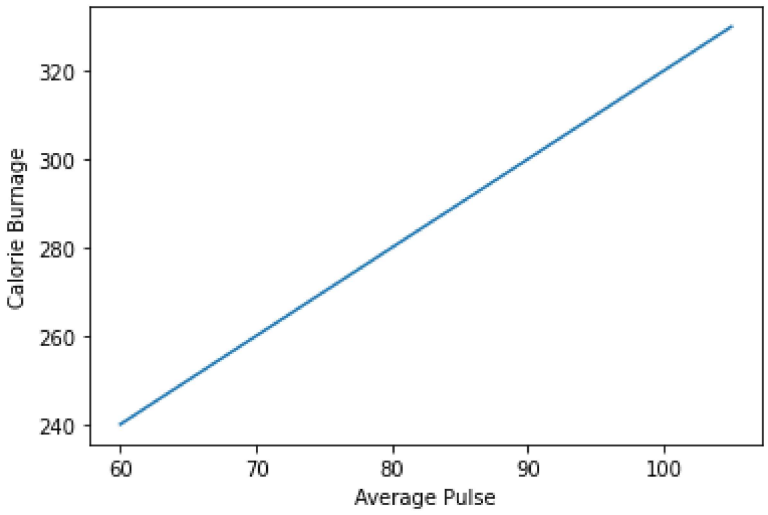



```
...
plt.plot(ypoints, c = 'GREEN')
```

```
...
###LINE 6

      Ellipsis
```

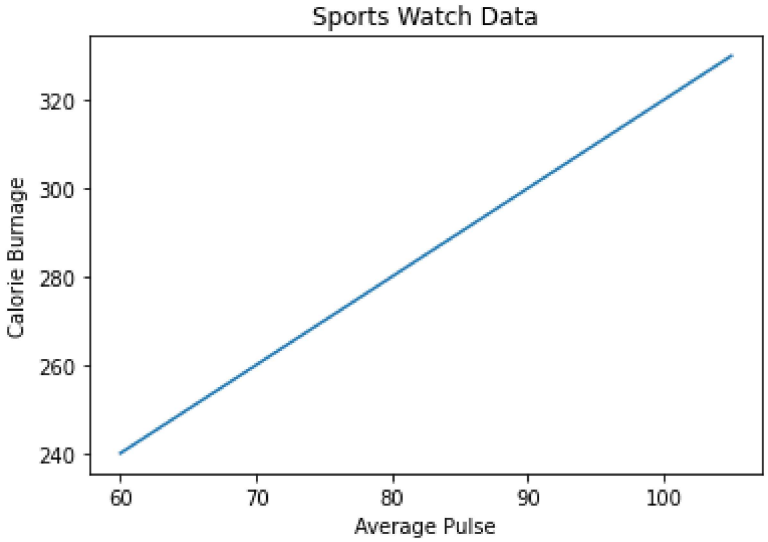



```
import numpy as np
import matplotlib.pyplot as plt

x = np.array([60, 65, 70, 75, 80, 85, 90, 95, 100, 105])
y = np.array([240, 250, 260, 270, 280, 290, 300, 310, 320, 330])

plt.plot(x, y)

plt.xlabel("Average Pulse")
plt.ylabel("Calorie Burnage")

plt.show()
###LABEL 1
```



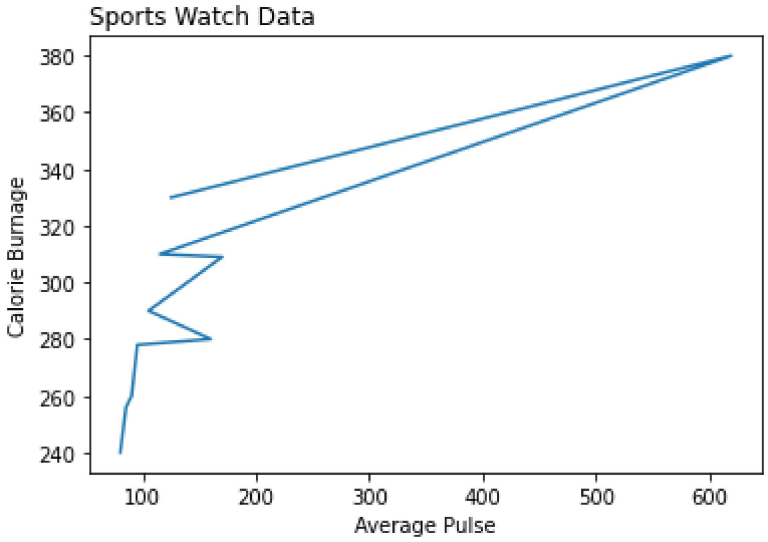

```
import numpy as np
import matplotlib.pyplot as plt

x = np.array([60, 65, 70, 75, 80, 85, 90, 95, 100, 105])
y = np.array([240, 250, 260, 270, 280, 290, 300, 310, 320, 330])

plt.plot(x, y)
```

```
plt.title("Sports Watch Data")
plt.xlabel("Average Pulse")
plt.ylabel("Calorie Burnage")

plt.show()
###LABEL 2
```

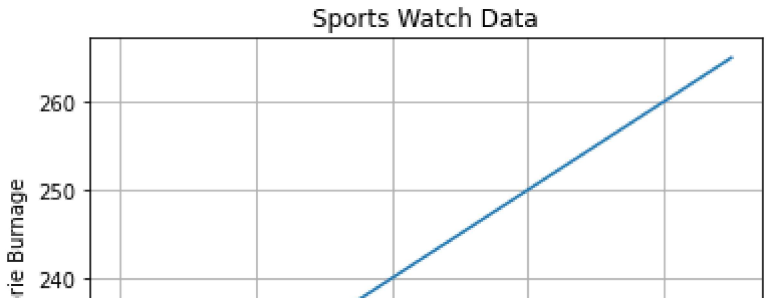



```
import numpy as np
import matplotlib.pyplot as plt

x = np.array([80, 85, 90, 95, 100, 105, 110, 115, 120, 125])
y = np.array([240, 230, 250, 270, 280, 290, 300, 310, 330, 340])

font1 = {'family':'serif','color':'blue','size':20}
font2 = {'family':'serif','color':'darkred','size':15}

plt.title("Sports Watch Data", fontdict = font1)
plt.xlabel("Average Pulse", fontdict = font2)
plt.ylabel("Calorie Burnage", fontdict = font2)

plt.plot(x, y)
plt.show()
###LABEL 3
```

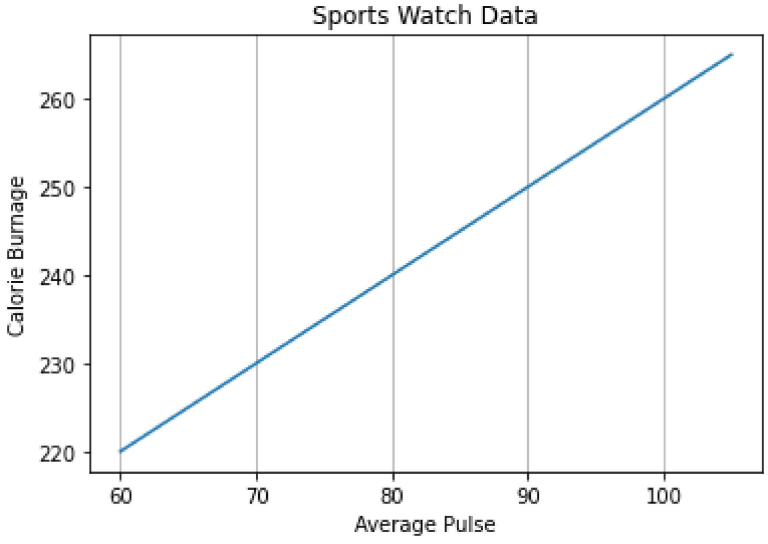
```
import numpy as np
import matplotlib.pyplot as plt

x = np.array([80, 85, 90, 95, 160, 105, 170, 115, 620, 125])
y = np.array([240, 256, 260, 278, 280, 290, 309, 310, 380, 330])

plt.title("Sports Watch Data", loc = 'left')
plt.xlabel("Average Pulse")
plt.ylabel("Calorie Burnage")

plt.plot(x, y)
plt.show()
###LABEL 4
```




```
import numpy as np
import matplotlib.pyplot as plt

x = np.array([60, 65, 70, 75, 80, 85, 90, 95, 100, 105])
y = np.array([220, 225, 230, 235, 240, 245, 250, 255, 260, 265])

plt.title("Sports Watch Data")
plt.xlabel("Average Pulse")
plt.ylabel("Calorie Burnage")

plt.plot(x, y)

plt.grid()

plt.show()
```

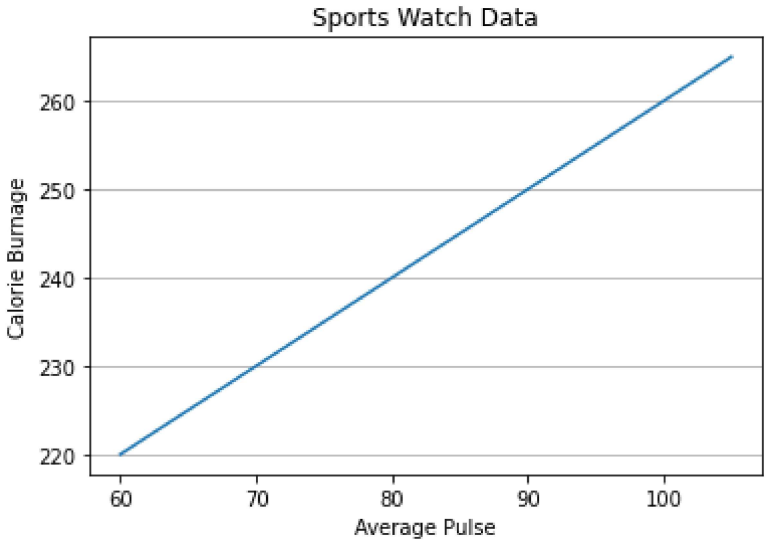



```
import numpy as np
import matplotlib.pyplot as plt

x = np.array([60, 65, 70, 75, 80, 85, 90, 95, 100, 105])
y = np.array([220, 225, 230, 235, 240, 245, 250, 255, 260, 265])

plt.title("Sports Watch Data")
plt.xlabel("Average Pulse")
plt.ylabel("Calorie Burnage")

plt.plot(x, y)

plt.grid(axis = 'x')

plt.show()
```




```
import numpy as np
import matplotlib.pyplot as plt

x = np.array([60, 65, 70, 75, 80, 85, 90, 95, 100, 105])
y = np.array([220, 225, 230, 235, 240, 245, 250, 255, 260, 265])

plt.title("Sports Watch Data")
plt.xlabel("Average Pulse")
plt.ylabel("Calorie Burnage")

plt.plot(x, y)

plt.grid(axis = 'y')
```

```
plt.show()
```


Sports Watch Data
Calorie Burnage
260
250
240
230
220
60
70
80
90
100
Average Pulse