In [1]:
```
# Experiment No: 7
```

In [2]:
```
# Aim: Data Visualization using matplotlib
```

In [3]:
```
# Name: Sakshi Padmakar Yeole
```

In [4]:
```
# Class: 3rd year(B)
```

In [5]:
```
# Roll No: 69
```

In [6]:
```
# Date: 9th September 2024
```

In [7]:
```
import numpy as np
```

In [8]:
```
from matplotlib import pyplot as plt
```

In [9]:
```
x=np.arange(1,11)
```

In [10]:
```
x
```

Out[10]:
```
array([ 1,  2,  3,  4,  5,  6,  7,  8,  9, 10])
```

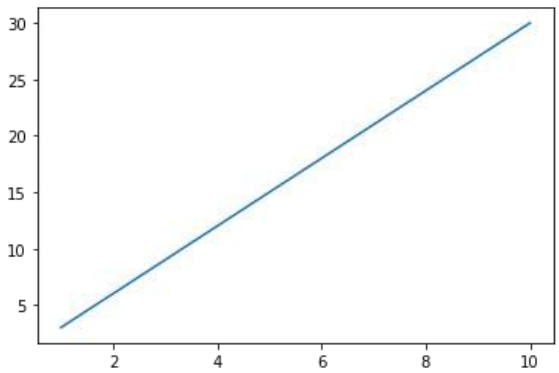
In [17]:
```
y=3*x
```

In [18]:
```
y
```

Out[18]:
```
array([ 3,  6,  9, 12, 15, 18, 21, 24, 27, 30])
```

In [19]:
```
plt.plot(x,y)
plt.show
```

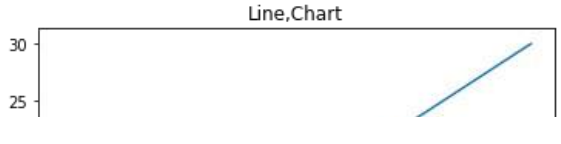
Out[19]:
```
<function matplotlib.pyplot.show(close=None, block=None)>
```

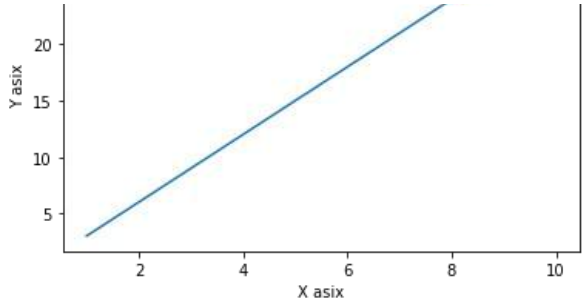


In [20]:
```
plt.plot(x,y)

plt.title("Line,Chart")
plt.xlabel("X asix")
plt.ylabel("Y asix")
plt.show
```

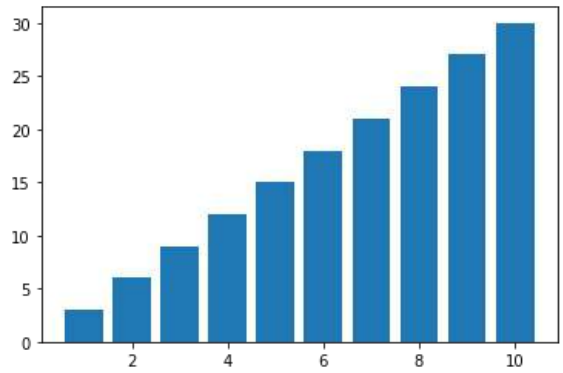
Out[20]:
```
<function matplotlib.pyplot.show(close=None, block=None)>
```





In [21]:
```
plt.bar(x,y)
plt.show
```

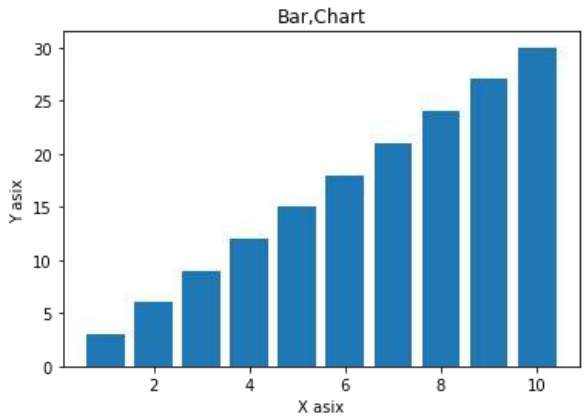
Out[21]:
```
<function matplotlib.pyplot.show(close=None, block=None)>
```



In [22]:
```
plt.bar(x,y)

plt.title("Bar,Chart")
plt.xlabel("X asix")
plt.ylabel("Y asix")
plt.show
```

Out[22]:
```
<function matplotlib.pyplot.show(close=None, block=None)>
```



In [ ]: