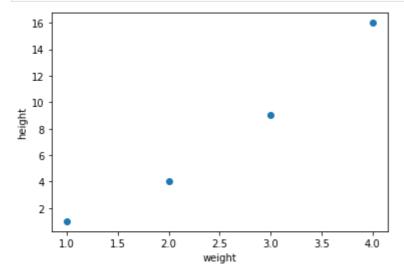
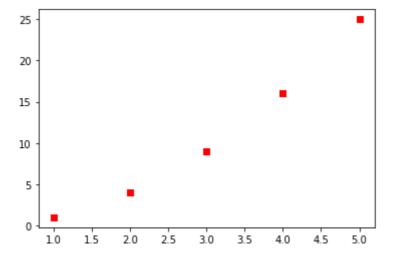
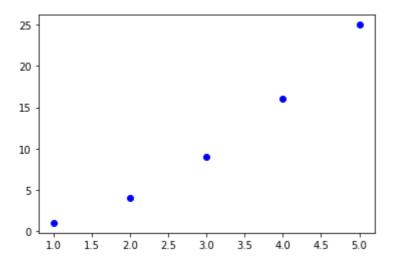
```
import matplotlib.pyplot as plt
import numpy as np

x = [1, 2, 3, 4]
y = [1, 4, 9, 16]
plt.scatter(x, y)
plt.ylabel('height')
plt.xlabel('weight')
plt.show()
```



```
In [6]: #changing color, points marker
x = [1, 2, 3, 4, 5]
y = [1, 4, 9, 16, 25]
plt.scatter(x, y, color='r', marker='s') #single color for all points, points mark
plt.show()
plt.scatter(x, y, color='b')
plt.show()
```



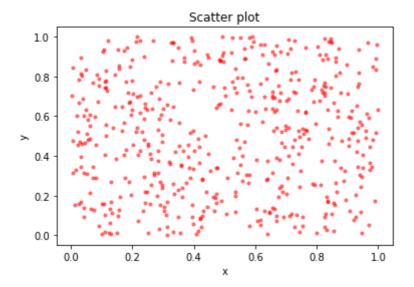


```
In [7]:
    #changing intensity of points
    x = [1, 2, 3, 4, 5]
    y = [1, 4, 9, 16, 25]
    z = [10, 50, 80, 25, 1] #intensity of points
    plt.scatter(x, y, z)
    plt.show()
```

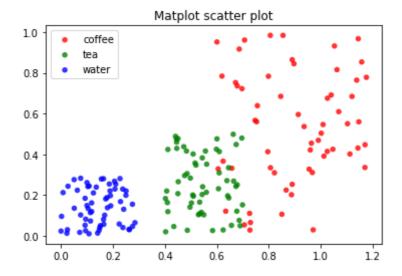
```
import numpy as np
import matplotlib.pyplot as plt

# Create data
N = 500
x = np.random.rand(N)
y = np.random.rand(N)
area = np.pi*3

# Plot
plt.scatter(x, y, s=area, c='r', alpha=0.5)
plt.title('Scatter plot')
plt.xlabel('x')
plt.ylabel('y')
plt.show()
```



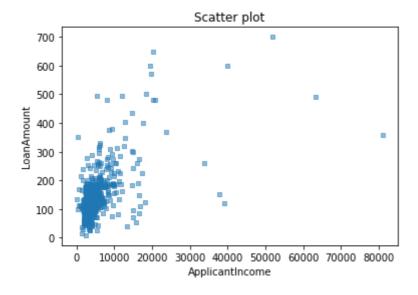
```
In [18]:
          #Scatter plot with groups
          import numpy as np
          import matplotlib.pyplot as plt
          # Create data
          N = 60
          g1 = (0.6 + 0.6 * np.random.rand(N), np.random.rand(N))
          g2 = (0.4+0.3 * np.random.rand(N), 0.5*np.random.rand(N))
          g3 = (0.3*np.random.rand(N),0.3*np.random.rand(N))
          data = (g1, g2, g3)
          colors = ("red", "green", "blue")
          groups = ("coffee", "tea", "water")
          # Create plot
          fig = plt.figure()
          ax = fig.add_subplot(1, 1, 1, facecolor='white')
          for data, color, group in zip(data, colors, groups):
              x,y = data
              ax.scatter(x, y, alpha=0.8, c=color, edgecolors='none', s=30, label=group)
          plt.title('Matplot scatter plot')
          plt.legend(loc=2)
          plt.show()
```



```
import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline
import statistics as st

df = pd.read_csv("C:\\Users\\Suresh Jamadagni\\downloads\\train.csv")

plt.scatter(df['ApplicantIncome'],df['LoanAmount'], s=area, marker='s', alpha=0.5)
plt.title('Scatter plot')
plt.xlabel('ApplicantIncome')
plt.ylabel('LoanAmount')
plt.show()
```



In [ ]: