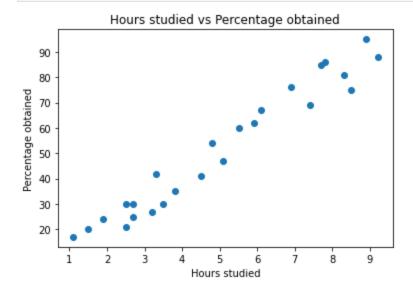
```
Percentage scored by a student based on study hours.
In [19]:
         import numpy as np
         import pandas as pd
         import matplotlib.pyplot as plt
         #importing data from the url
         from urllib.request import urlretrieve
         url= 'https://raw.githubusercontent.com/AdiPersonalWorks/Random/master/student_scores%20-%20student_scores.csv'
         urlretrieve(url, 'student_data.txt')
Out[20]: ('student_data.txt', <http.client.HTTPMessage at 0x220a2434c70>)
         #printing the input data
         student_data=pd.read_csv('data.csv')
         print(student data)
           Hours Scores
            2.5
                    21
                    47
             5.1
             3.2
                   27
             8.5
                   75
             3.5
                   20
            1.5
             9.2
                   88
                   60
             5.5
             8.3
                   81
                    25
             2.7
        10
            7.7
                   85
        11 5.9
                   62
        13 3.3
                   42
                  17
        14 1.1
                   95
        15 8.9
            2.5
                    30
                   24
        17
            1.9
        18 6.1
                   67
        19 7.4
        20 2.7
        21 4.8
                   54
        22 3.8
                    35
        23 6.9
        24
            7.8
                     86
        student data.describe()
```

ut[22]:		Hours	Scores
	count	25.000000	25.000000
	mean	5.012000	51.480000
	std	2.525094	25.286887
	min	1.100000	17.000000
	25%	2.700000	30.000000
	50%	4.800000	47.000000
	75%	7.400000	75.000000
	max	9.200000	95.000000

#plotting
x=student\_data['Hours']
y=student\_data['Scores']
plt.scatter(x, y)
plt.title('Hours studied vs Percentage obtained')
plt.xlabel('Hours studied')
plt.ylabel('Percentage obtained')
student\_data.describe()
plt.show()



In [24]:
#training the data
from sklearn.linear\_model import LinearRegression
model=LinearRegression()
x= np.array(x)
x= x.reshape(-1,1)
model.fit(x,y)

Out[24]: LinearRegression()

In [25]: #finding score for 9.25 hours of study per day
 hour=9.25
 h= np.array(hour)
 h= h.reshape(-1,1)
 score=model.predict(h)
 print("Hours studied is",hour)
 print("Percentage scored is {}".format(score[0]))

Hours studied is 9.25
Percentage scored is 92.90985477015731