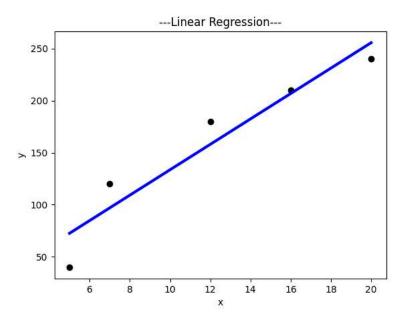
```
import requests as rq
api="da20f2cfab184bcd9c353632242802"
city=input("Enter city name")
url=f"http://api.weatherapi.com/v1/current.json?key={api}&q={city}"
response=rq.get(url)
data=response.json()
data
Enter city nametanuku
     {'location': {'name': 'Tanuku',
       'region': 'Andhra Pradesh',
'country': 'India',
       'lat': 16.75,
       'lon': 81.7,
        'tz_id': 'Asia/Kolkata',
       'localtime_epoch': 1709101380,
       'localtime': '2024-02-28 11:53'},
'current': {'last_updated_epoch': 1709100900,
        'last_updated': '2024-02-28 11:45',
       'temp_c': 34.3,
'temp_f': 93.7,
       'is_day': 1,
        'condition': {'text': 'Sunny',
         'icon': '//cdn.weatherapi.com/weather/64x64/day/113.png',
         'code': 1000},
        'wind_mph': 4.9,
        'wind kph': 7.9,
        'wind_degree': 103,
'wind_dir': 'ESE',
        'pressure_mb': 1013.0,
        'pressure_in': 29.91,
        'precip_mm': 0.0,
        'precip_in': 0.0,
        'humidity': 32,
        'cloud': 3,
        'feelslike_c': 34.7,
        'feelslike_f': 94.4,
        'vis_km': 10.0,
        'vis_miles': 6.0,
        'uv': 8.0,
        'gust_mph': 5.7,
        'gust_kph': 9.1}}
type(data )
     dict
print("city:",data["location"]["name"])
     city: Tanuku
print("state:",data["location"]["region"])
     region: Andhra Pradesh
print("country:",data["location"]["country"])
     country: India
print("Temperature in celsius:",data["current"]["temp_c"])
     Temperature in celsius: 34.3
if(response==200):
  print("city name not fond")
  print("City:",data["location"]["name"])
  print("State:",data["location"]["region"])
  print("Country:",data["location"]["country"])
  print("Temperature in celsius:",data["current"]["temp_c"])
  print("wind speed:",data["current"]["wind_mph"])
  print("wind direction:",data["current"]["wind_dir"])
  print("Humidity:",data["current"]["humidity"])
  print("feels like:",data["current"]["feelslike_c"])
  print("cloud:",data["current"]["cloud"])
```

```
City: Tanuku
     State: Andhra Pradesh
     Country: India
     Temperature in celsius: 34.3
     wind speed: 4.9
     wind direction: ESE
     Humidity: 32
     feels like: 34.7
     cloud: 3
from sklearn.linear_model import LinearRegression
LR=LinearRegression()
t=[[5],[7],[12],[16],[20]]
m=[40,120,180,210,240]
LR.fit(t,m)
print(LR.predict([[5.5]]))
print(LR.predict([[25]]))
     [78.64935065]
     [316.7012987]
import matplotlib.pyplot as plt
plt.scatter(t,m,color='black')
y_pred=LR.predict(t)
plt.plot(t,y_pred,color="blue",linewidth=3)
plt.xlabel("x")
plt.ylabel("y")
plt.title("---Linear Regression---")
plt.show()
```



```
# Distance and corresponding probability data import numpy as pd from sklearn.linear_model distances = np.array([1,2,5,10,15,20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30,35,40,41,47,50]).reshape(-1, 1) probabilities = np.array([1,1,1,1,1,1,0.9, 0.85, 0.73, 0.67, 0.5, 0.47, 0.39, 0.31, 0.25, 0.15,0,0,0,0,0])
```