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In [4]: #NAME :-Om Chandrakant Mahajam          ROLL NO :- 88
#PRACTICAL NO/NAME:-5 speed of 5 year old car    DATE :- 06/09/2024
#-----
import matplotlib.pyplot as plt
from scipy import stats
x=[5,7,8,7,2,17,2,9,4,11,12,9,6]
y=[99,86,87,88,111,86,103,87,94,78,77,85,86]
slope,intercept,r,p,std_err=stats.linregress(x,y)
def predict_speed(age):
    return slope *age+intercept
# Predict the speed of 5-year-old car
predicted_speed=predict_speed(5)
print(f"Predicted speed for a 5-year-old car:{predicted_speed:.2f}units")
```

Predicted speed for a 5-year-old car:94.35units

In [ ]: