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In [1]:
```
import numpy as np
from sklearn.linear_model import LinearRegression
```

In [2]:
```
x = np.array([0, 1, 2, 3, 3, 5, 5, 5, 6, 7, 7, 10])
y = np.array([96, 85, 82, 74, 95, 68, 76, 84, 58, 65, 75, 50])
```

In [3]:
```
n = len(x)
sum_x = np.sum(x)
sum_y = np.sum(y)
sum_xy = np.sum(x * y)
sum_x2 = np.sum(x**2)
```

In [4]:
```
b = (n * sum_xy - sum_x * sum_y) / (n * sum_x2 - sum_x**2)
a = (sum_y - b * sum_x) / n
```

In [5]:
```
print(f"Regression Equation: y = {a:.2f} + {b:.2f}x")
```

```
Regression Equation: y = 93.97 + -4.07x
```

In [6]:
```
hours = float(input("Enter the number of hours of watching TV on Sunday : "))
```

In [7]:
```
print(f"The possible marks is {93.97 + -4.07 * hours}")
```

```
The possible marks is 55.30499999999999
```

In [ ]:

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