

```
data = [(10,25),(20,45),(30,65),(40,85),(50,105)]
```

```
x = [d[0] for d in data]
```

```
y = [d[1] for d in data]
```

```
mx = sum(x)/len(x)
```

```
my = sum(y)/len(y)
```

```
num = sum((x[i]-mx)*(y[i]-my) for i in range(len(x)))
```

```
den = sum((x[i]-mx)**2 for i in range(len(x)))
```

```
b1 = num/den
```

```
b0 = my - b1*mx
```

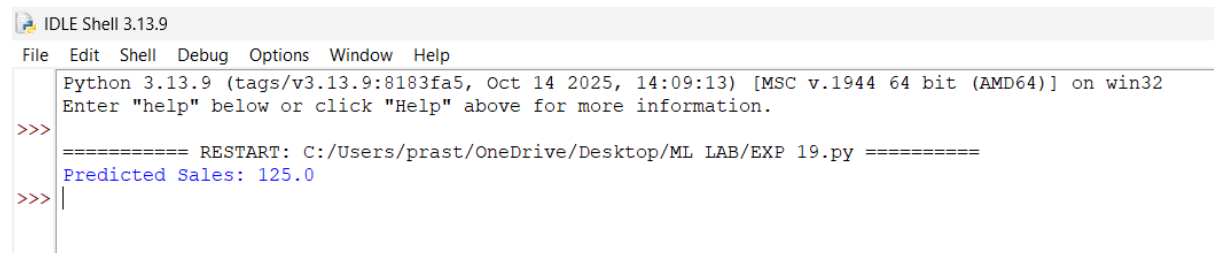
```
def predict(x):
```

```
    return b0 + b1*x
```

```
future_ad = 60
```

```
print("Predicted Sales:", round(predict(future_ad),2))
```

OUTPUT:



```
IDLE Shell 3.13.9
File Edit Shell Debug Options Window Help
Python 3.13.9 (tags/v3.13.9:8183fa5, Oct 14 2025, 14:09:13) [MSC v.1944 64 bit (AMD64)] on win32
Enter "help" below or click "Help" above for more information.
>>> ===== RESTART: C:/Users/prast/OneDrive/Desktop/ML LAB/EXP 19.py =====
>>> Predicted Sales: 125.0
>>> |
```