

```
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
```

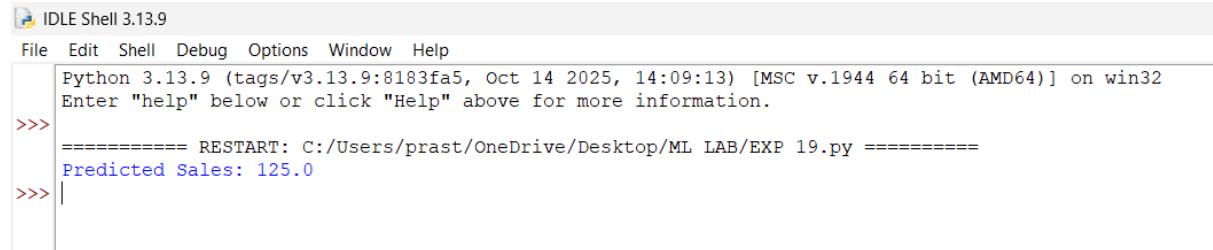
```
def predict(x):
```

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

```
future_ad = 60
```

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

## OUTPUT:



The screenshot shows the IDLE Shell interface. The menu bar includes File, Edit, Shell, Debug, Options, Window, and Help. The main window displays the Python interpreter's prompt (>>>). It shows the Python version (3.13.9), the date and time of compilation (Oct 14 2025, 14:09:13), and the build configuration (MSC v.1944 64 bit (AMD64)). It also indicates the platform (win32). A message says "Enter 'help' below or click 'Help' above for more information." The user has entered the command "print("Predicted Sales:", round(predict(future\_ad),2))" and the output is displayed as "Predicted Sales: 125.0".