EXPERIMENT 8:

```
X = [1,2,3,4,5]
y = [2,4,6,8,10]

w = 0
b = 0
lr = 0.01

# Training using Gradient Descent
for _ in range(1000):
    dw = db = 0
    for i in range(len(X)):
        y_pred = w*X[i] + b
        dw += (y_pred - y[i]) * X[i]
        db += (y_pred - y[i])
    w -= lr * dw
    b -= lr * db

print("Slope:", w)
print("Intercept:", b)
```

Output

```
Slope: 1.9999706639389163
Intercept: 0.00010591248879369887

=== Code Execution Successful ===
```