

## Task 1

```
Enter n: 3
Enter x[0] & y[0]: 1 2
Enter x[1] & y[1]: 3 4
Enter x[2] & y[2]: 5 6
Linear regression model: predicted  $y = 1 + 1 * x$ 
Predicted y:
for x = 1: 2
for x = 3: 4
for x = 5: 6
Enter new x & y: 5 7
Predicted y for new x = 5: 8
Error: 1
```

```
Enter n: 6
Enter x[0] & y[0]: 1 5
Enter x[1] & y[1]: 2 7
Enter x[2] & y[2]: 2 8
Enter x[3] & y[3]: 3 9
Enter x[4] & y[4]: 5 12
Enter x[5] & y[5]: 6 15
Linear regression model: predicted  $y = 3.50442 + 1.84071 * x$ 
Predicted y:
for x = 1: 5.34513
for x = 2: 7.18584
for x = 2: 7.18584
for x = 3: 9.02655
for x = 5: 12.708
for x = 6: 14.5487
Enter new x & y: 6 2
Predicted y for new x = 6: 7.18584
Error: 5.18584
```

## Блок-схема

