Задача 1

```
PS C:\Users\user\C++\homework> cd hw4/list04_dz
PS C:\Users\user\C++\homework\hw4\list04_dz> g++ program01.cpp -o program01
PS C:\Users\user\C++\homework\hw4\list04_dz> ./program01
Enter n: 5
Enter x[0] & y[0]: 63 56
Enter x[1] & y[1]: 8 13
Enter x[2] & y[2]: 62 25
Enter x[3] & y[3]: 14 81
Enter x[4] & y[4]: 36 95
Linear regression model: predicted y = 56.0004 + -0.0546571 * x
Predicted y:
for x = 63: 52.5571
for x = 8: 55.5632
for x = 62: 52.6117
for x = 14: 55.2353
for x = 36: 54.0328
Enter new x & y: 30 37
Predicted y for new x = 30: 53.9781
Error: 16.9781
PS C:\Users\user\C++\homework\hw4\list04_dz>
```

Задача 2

```
PS C:\Users\user\C++\homework\hw4\list04_dz> g++ program02.cpp -o program02
PS C:\Users\user\C++\homework\hw4\list04_dz> ./program02
Enter the number of elements: 4
Enter word: duck
Enter the number of elements: 6
Enter word: tablet
Vector X:
d t u a c b k l e t
PS C:\Users\user\C++\homework\hw4\list04_dz>
```