Lab 2

Exercise 1

```
Integer multiplication (5 * 3): 15
Double multiplication (2.5 * 4.2): 10.5
Mixed multiplication no rounding (3 * 2.7): 8.1
Mixed multiplication with rounding (3 * 2.7): 8
```

Exercise2

```
x = 20
 y = 10.5
Before pointer swap: x = 20, y = 10.5
After pointer swap: x = 10.5, y = 20
After reference swap: x = 20, y = 10.5

[Done] exited with code=0 in 1.072 seconds
```

Exercise3

```
Give an input:
7
Give another input:
0
Choose an operand (+, -, *, /):
+
The result is: 7
PS C:\Users\Käyttäjä\Git\MicroController>
```

Exercise4

```
PS C:\Users\Käyttäjä\Git\MicroController> ./lab2/Exercise4.exe
Enter a number: 3
The square of 3 is 9
Enter a number: 0
Zero entered. Skipping...
Enter a number: -1
Negative number entered. Exiting...
```

Exercise 5

```
Reversed array: 15 10 7 4 1

[Done] exited with code=0 in 1.133 seconds
```

Exercise 6

```
PS C:\Users\Käyttäjä\Git\MicroController> ./lab2/Exercise6.exe

Student Record System:
1. Add a student
2. Display all students
3. Search for a student by ID
4. Exit
Enter your choice: 1
Enter student name: Tom
Enter student ID: 32
Enter student grade: 3
Student added successfully.

Student Record System:
1. Add a student
2. Display all students
3. Search for a student by ID
4. Exit
Enter your choice:
```

Exercise7

```
'c:\Users\Käyttäjä\Git\MicroController\lab2\"Exercise7
The value of x is: 100
The address of x is: 0xa9711ffadc
The address of p1 is: 0xa9711ffadc
x is pointed by: 100
x is pointed by: 100
```

Exercise 8

```
"c:\Users\Käyttäjä\Git\MicroController\lab2\"Exercise8
Original values:
x = 100
refX = 100
After modifying:
x = 30
refX = 30

[Done] exited with code=0 in 1.047 seconds
```