

Mathematical Science Discovery Week

Computer Science Day

Exercise 2

Task 1 – Rewrite Average of Ten Numbers with Loop

Take task 5 of exercise 1, rewrite it with the loop that we discussed in the 2nd lecture.

To simplify the problem, let's remove the "#1" ~ "#10" from the output of previous version.

```
Please enter an integer: 55 [enter]
Please enter an integer: 71 [enter]
Please enter an integer: 45 [enter]
Please enter an integer: 33 [enter]
Please enter an integer: 90 [enter]
Please enter an integer: 147 [enter]
Please enter an integer: 83 [enter]
Please enter an integer: 92 [enter]
Please enter an integer: 1 [enter]
Please enter an integer: 7 [enter]

The average of the above numbers is 62.4 .
```

Task 2 – Program Exit Control

Take task 4 of exercise 1, rewrite it so that the user can have control over when to exit the program.

Instead of directly exit the program when the calculation is done. We improve our program so that it will prompt questions to the user, "One more time? (Y/N)". If the user enters "Y", the program will start from the beginning again (ask for the first integer and so on). On the other hand, if the user enters "N", then the program will terminate.

```
Please enter the first integer: 3 [enter]
Please enter the second integer: 6 [enter]
The product of 3 and 6 is 18 .
One more time? (Y/N) Y [enter]
Please enter the first integer: 7 [enter]
Please enter the second integer: 3 [enter]
The product of 7 and 3 is 21 .
One more time? (Y/N) N [enter]
Goodbye! =)
```