

## Introduction to Computing

### Lab 8 practice

#### Topics Covered:

- While Loop (Counter Control, Sentinel Control, Flag Control)

**Q1:** Write a C++ program where you take a number from user and print in count of reverse order till 1.

**Note:** using counter control while loop

#### **Expected Output:**

```
Enter a number: 7
7
6
5
4
3
2
1
Press any key to continue . . .
```

**Q2:** Write a C++ program where you take a 5-digit number from user show every digit of the number separately and then find the sum of the digits of the number.

**Note:** using sentinel control while loop

#### **Expected Output:**

```
Enter a 5 digit number: 48673
48673
Sum of:
4
8
6
7
3
=28
Press any key to continue . . .
```

**Q3:** Write a C++ program where you create a guessing game by taking a number from user from 0-5. You will be going to have only two attempts to guess the number right which will be a random number. If user enter wrong number prompt on screen Guess Again Otherwise You Loss or Win.

**Note:** using flag control while loop

**Expected Output:**

```
Enter an integer between than or equal to 0 and less than 5 (You have 2 attempts): 2
Guess again!
Enter an integer between than or equal to 0 and less than 5 (You have 2 attempts): 4
You lose. The correct no is: 0
Press any key to continue . . . _
```