University of Sri Jayewardenepura, Sri Lanka

Bachelor of Information and Communication Technology Semester 1

ITC 1063 – Fundamentals of Programming

Programming Practice 1

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1. Write a C program to print following **characters** and their **ASCII values (number)**

   A 2 # * \n E

```
Sample Output:
A        65
2        50
#        35
*        42

         10
E        69
```

2. Write a C program to print the size of following data types **in your computer**.

Char short int long int float double long double

Sample Output:

```
Size of char: 1 bytes
Size of short int: 2 bytes
Size of int: 4 bytes
Size of long int: 4 byte
Size of float: 4 byte
Size of double: 8 byte
Size of long double: 12 byte
```

Hint: Use **sizeof()** operator

3. Write C code to produce the output as shown below:

Contents of x before	Expression	Value of Expression	Contents of x after
5	x++	5	6
5	x--	5	4
5	++x	6	6
5	--x	4	4

4. Write a program assigning an integral value for a and print out the result as shown below:

```
The value of a is: 10
……

The value of ++a is: 11
Now the value of a is: 11

The value of a++ is: 11
Now the value of a is: 12

The value of --a is:11
Now the value of a is:11

The value of a-- is: 11
Now the value of a is: 10
```

5. Write a C program to get **five** numbers as user inputs (using scanf) and calculate the **sum** and the **average** of them.

   A sample output of the program is provided below.

```
Enter first number: 18

Enter Second number: 10

Enter Second number: 13

……

Sum: 61
```

```
Average: 12.2
```

6. Write a C program to get **two** numbers as user inputs (using scanf). First, print those two numbers. Then, you are supposed to **swap** those numbers inside your program. Finally, **print two swapped** numbers.

   A sample output of the program is provided below.

```
Enter x: 18

Enter y: 10

Before swapping

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X = 18    y = 10


After swapping

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X = 10    y = 18
```