

# EAD HOMEWORK 3

(BSSE & BSIT FALL 2018)

**Deadline : Sunday, 14 March (Before 11:59 PM)**

## Instructions:

- Work on this Homework individually. Discussion is not allowed.
- **Anyone caught being indulged in the act of plagiarism would be awarded F grade in this Subject.**
- Understanding the questions is a part of the homework.

## Answers the following Questions:

**Q1** -How does const differ from ReadOnly in C#?

**Q2**-Why we need Tuples?

**Q3**-Why we use out parameter in C#?

**Q4**-What are the advantages of using **Partial Classes** in C#?

**Q5**-What is the output of the following program?

```
using System;
```

```
public class Program {
```

```
    public static void Main()
```

```
{
```

```
    void myFunc (string str, out string s)
```

```
{
```

```

        s = str + "OOP"

        + "DSA";

    }

    string a = null;

    myFunc ("EAD", out a);

    Console.WriteLine(a);

}

}

```

**Q6-** What are the advantages of Operator Overloading? Write any two.

**Q7** Write a program in C# Sharp to create a file, write some text in the file using StreamWriter and read the file using StreamReader. Write the program in your compiler and attach the screenshot of your program along with its output.

**Q8-** Write A function in C# that takes two numbers as parameters from user and swaps them. (Method return type should be void). Write the function in your compiler and attach the screenshot of your function along with its output.

**Q9-** Write a class in C# that keeps counts of all its objects that are initialized during the execution of program. No variable outside the class should be responsible for maintaining count. Also this count cannot be changed by user himself but should only be modified by class. Write the program in your compiler and attach the screenshot of your program along with its output.

**Q10-** What are the advantages of indexers in C#? Write any four.