



## Punjab University College of Information & Technology

### Programming Fundamentals

#### BSIT-F20

Q.1 You have to make a student management system, that maintains records of all data in a file named **StudentData.txt**. Write a program that takes as an input the roll no, name, current semester and the no. of courses taken by the student and then writes this record in a file named **StudentData.txt**. At least take as an input the record of 2 students.

The file **StudentData.txt** should look like this:

Student Management System:

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Roll no	Name	Semester	No. of courses
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BSITF20M001	Ali	2	6
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BSITF20A001	Samama	2	7
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Note: The file **StudentData.txt** must be created during the execution of the program. Also your program should handle all the error checking.

Q.2 There is a calculator that works on 2 files namely **data.txt** and **sum.txt**. You have to write a



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program to implement this calculator that reads the 2 values from the file **data.txt**, calculates the sum and stores the result in sum.txt file. The **data.txt** file is provided to you.

Note: Also display the two values to be added and its sum on the console.

### Q.3 Diamond Pattern

Write a program that displays the following pattern using nested loop:

```
  *
 * * *
* * * * *
* * * * * *
  * * * * *
    * * *
      *
```

### Q.4 Question No 24 from chpater#5