National University of Computer and Emerging Sciences



**Laboratory Manual**

***(Computer Programming)***

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| Course Instructor | Mr. Sarim Baig |
| Lab Instructor(s) | Ahsan Rehman  Zara Asif |
| Section | E |
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Department of Computer Science

FAST-NU, Lahore

**Computer Programming Lab**

**Important Note:**

* **Define your class in “Date.h” file, Implement all the functions of Date class in “Date.cpp” and Test your class in “Driver.cpp”**

**Exercise 1:**

* Create a class **Date** having following private data members:

Int Day

Int Month

Int Year

* Create an object of Date “***date1***” and run your program

**Exercise 2 [Default Constructor]:**

* Write a default Constructor of Date that initializes the object to 1st January 1926 and prints “*Default Constructor Called*” in start
* Now run your program and test what does date1 prints?

**Exercise 3 [Print Function]:**

* Implement a function **Print** in Date class which prints a date in following format:

dd/mm/yyyy

* Print object date1 in your main function and run the program.
* What does it print and how can we initialize the data of date1 at the time of creation?

**Exercise 4 [Overloaded Constructor]:**

* Write an overloaded Constructor of Date class that initializes the date object to date, month and year provided as parameter and prints “Overloaded Function Called”
* Now create another object ***independanceDay***in main that is 14/08/2016
* Print ***independanceDay*** by calling Print function of Date class and run your program

**Exercise 5 [Destructor]:**

* Write Destructor of Date class that prints “Destructor called”
* Run your program and test it

**Exercise 6 [Input Function]:**

* Write a function **Input** in your Date class that takes input from user to populate a Date object
* Call “*date1.Input()*” and “*date1.Print()*” in your driver program and test it

**Exercise 7 [Setters]:**

* Create an object ***xmasDay*** using default constructor
* Print xmasDay and see what it prints
* Write Setters i.e. SetDay, SetMonth and SetYear in your class
* Now set xmasDay to 25/12/2016 using Setters in main

**Exercise 8[Getters]:**

* Write Getters i.e. GetDay, GetMonth and GetYear in your date class
* Now print xmasDay using Getters in your Driver program