Subject: Fundamentals of Computer and Programming B.Tech-I (Div A to F)

Practice Assignment

Instructions:

- You have to submit the hardcopy (handwritten notebook) of the same, printed solutions are not accepted. *Suitable date of submission will be announced later*.
- At the time of submission there will be a viva-vice so do it by yourself don't copy from your friends. Randomly any one of the program will be asked to explain.
- Write a program with proper syntax and indentation.
- 1. If cost price and selling price of an item is input through the keyboard, write a program to determine whether the seller has made profit or incurred loss. Also determine how much profit he made or loss he incurred.
- 2. Any integer is input through the keyboard. Write a program to find out whether the given number is an odd number or even number.
- 3. A five-digit number is entered through the keyboard. Write a program to obtain the reversed number and to determine whether the original and reversed number are equal or not.
- 4. If the ages of Ram, Shyam and Ajay are input through the keyboard. Write a program to determine the youngest of the three.
- 5. Write a program to check whether a triangle is valid or not, when the three angles of the triangle are entered through the keyboard. A triangle is valid if the sum of the three angles is equal to 180 degrees.
- 6. Given the length and breadth of a rectangle, write a program to find whether the area of rectangle is greater than its perimeter.
- 7. Given the radius of a circle, write a program to find whether the area of circle is greater than the its circumference.
- 8. Given three points (x1, y1), (x2, y2) and (x3, y3), write a program to check if all the three points fall on one straight line or not.
- 9. Any year is input through the keyboard. Write a program to determine whether the year is leap year or not. Use logical operator && and ||.

10 Teach of their else register operator else and 11.

- hours, the worker is given training to improve his speed, if the time taken by the worker is more than 5 hours, then the worker has to leave the company. If the time taken by the worker is input through the keyboard, find the efficiency of the worker.
- 12. A library charges a fine for every book returned late. For first 5 days the fine is 50 paise, for 6-10 days fine is one rupees and above 10 days fine is 5 rupees. If you return the book after 30 days your membership will be cancelled. Write a program to accept the number of days the member is late to return the book and display the fine or the appropriate message.
- 13. Write a program to take one number from the command line. If the number is in-between 1 to 7 then display the corresponding day (Ex. 1-Sunday and 7-Saturday) otherwise display invalid number.
- 14. Read a character from the command prompt. Write a program to check whether the entered character is vowel or consonant.
- 15. Write a program to make a simple calculator using Switch Case. You have to take two number and also an operand (+, -, *, /, %) as an input from the user and perform the particular operation in the basis of user choice.