LAB Assignment on concept of progrAmming using c by navneet kumar solanki dated on 03/04./2020 for INFORMATION TECHNOLOGY SECOND SEM STUDENTS

- 1. Write a program to print whether a given number is even or odd.
- 2. : Design and develop a flowchart or an algorithm that takes three coefficients (a, b, and c) of a Quadratic equation (ax2+bx+c=0) as input and compute all possible roots. Implement a C programfor the developed flowchart/algorithm and execute the same to output the possible roots for a givenset of coefficients with appropriate messages.
- 3. Design and develop an algorithm to find the reverse of an integer number NUM and check whether it is PALINDROME or NOT. Implement a C program for the developed algorithm that takes an integer number as input and output the reverse of the same with suitable messages. Ex: Num: 2014, Reverse: 4102, Not a Palindrome
- 4. Design and develop a flowchart to find the square root of a given number N.
- 5. Implement a C program for the same and execute for all possible inputs with appropriate messages. Note: Don't use library function sqrt(n).
- 6. Design and develop a C program to read a year as an input and find whether it is leap year or not. Also consider end of the centuries.
- 7. Write a program to calculate simple and compound interest.
- 8. Write a program to swap values of two variables with and without using third variable.
- 9. Write a program to display the size of every data type using "sizeof" operator.
- 10. Write a program to illustrate the use of unary prefix and postfix increment and decrement operators.
- 11. Write a program to input two numbers and display the maximum number.
- 12. Write a program to find the largest of three numbers using ternary operators.
- 13. Write a program to find the roots of quadratic equation.
- 14. Write a program to input name, marks of 5 subjects of a student and display the name of the student, the total marks scored, percentage scored and the class of result.