

LIST OF PRACTICALS
CLASS XI
COMPUTER SCIENCE

- P.01** Write a complete C++ program to calculate the area of a circle, rectangle or a triangle depending upon user's choice.
- P.02** Write a complete C++ program to perform arithmetic calculation using switch. This program inputs two operands and an operator and then displays the calculated result.
- P.03** Write a complete C++ program to calculate the factorial of an integer.
- P.04** Write a complete C++ program to check whether the given number is palindrome or not.
- P.05** Write a complete C++ program to find out whether a year (entered in 4 digit number representing it) is a leap year.
- P.06** Write a complete C++ program to print Fibonacci series i.e. 0 1 1 2 3 5 8....
- P.07** Write a complete C++ program to print the following pattern.

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

- P.08** Write a complete C++ program to print the following pattern.

```
1
1  3
1  3  5
1  3  5  7
```

- P.09** Write a complete C++ program to print the sum of the given series.
 $1^2 + 3^2 + 5^2 + \dots + n^2$
- P.10** Write a complete C++ program to print the sum of the given series.
 $S = 1 + x + x^2 + x^3 + \dots + x^n$
- P.11** Write a complete C++ program to print the random nos. between two different nos. entered by user at run time.
- P.12** Write a complete C++ program that invokes a function which accepts two variables and swap their values (using call by reference).
- P.13** Write a complete C++ program that invokes a function which accepts two variables and swap their values (using call by value).
- P.14** Write a complete C++ program that invokes a function which accepts three values for principal amt, rate and time and returns the simple interest.
- P.15** Write a complete C++ program that invokes a function which accepts three values for principal amt, rate and time and returns the compound interest.
- P.16** Write a complete C++ program that invokes a function which intakes two integers and an arithmetic operator and prints the corresponding result.
- P.17** Write a complete C++ program that invokes a function satis() to find whether four integers a, b, c, d sent to satis() satisfy the equation $a^3 + b^3 + c^3 = d^3$ or not. The function returns 0 if the above equation is satisfied with the given four numbers otherwise it returns -1.
- P.18** Write a program to read two matrices A[3][3], B[3][3] from user and add the matrices into matrix C[3][3] and display.

- P.19** Write a program to read two matrices **A[3][3]**, **B[3][3]** from user and subtract the matrices and put in matrix **C[3][3]** and display.
- P.20** Write a program to read two matrices **A[3][3]**, **B[3][3]** from user and multiply the matrices and put in matrix **C[3][3]** and display.
- P.21** Write C++ program to define structure **VOTER** having data members **id_no** of type **int**, **name** of type **string**, **address** of type **string** and **age** of type **int**. create object array for 20 voters, read values and display record of voters above age of 60.