

**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 following pattern.**

```
A
A  B
A  B  C
A  B  C  D
A  B  C  D  E
```

**P.10 Write a complete C++ program to print the following pattern.**

```
A
B  C
D  E  F
G  H  I  J
K  L  M  N  O
```

**P.11 Write a complete C++ program to print the sum of the given series.**

$$1^2 + 3^2 + 5^2 + \dots + n^2$$

**P.12 Write a complete C++ program to print the sum of the given series.**

$$S = 1 + x + x^2 + x^3 + \dots + x^n$$

**P.13 Write a complete C++ program that invokes a function which accepts two variables and swap their values :**

- using call by value
- using call by reference

**P.14 Write a complete C++ program that invokes a function which accepts three values for principal amt, rate and time and returns :**

- Simple interest
- Compound interest

- P.15** Write a complete C++ program that invokes a function which intakes two integers and an arithmetic operator and prints the corresponding result.
- P.16** Write a complete C++ program that invokes a function which reads a String and display :
- Total no. of Vowel in string
  - No. of different vowels separately
- P.17** Write a complete C++ program to find the biggest and smallest no. entered in a array.
- 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 10 voters, read values and display record of voters as per id\_no entered by user at run time.
- P.22** Write a program to implement passing and returning structure to/from a function.

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