Instructions for Assignments:

- **Prepare your assignment on only A4 Sheet Paper.**
- **Write only one side on the A4 Sheet Page.**
- **Use only Blue and Black Pen.**
- **Draw blocks diagram/picture/image/graph (if possible) with pencil.**
- **Index page and Front Cover page is necessary.**
- **Submit each paper individual with in mention date in your respective institute**

COPA/ADCA (NCVT-ITI)

Assignment : Problem solving through Python programming

1. **Write a program to find largest number among three numbers.**
2. **WAP to accept three sides of triangle and check whether it is an equilateral, isosceles or scalene triangle.**
3. **Write a recursive function to print Fibonacci series upto nth term.**
4. **Write a function to print Armstrong number between 100 to 999.**
5. **Write a program to swap two numbers without using third variable.**
6. **Write a program to print sum of two entered matrices by user.**
7. **Write a program to print multiplication of two matrix elements.**
8. **Write a program to print reverse of any number and check given number is palindrome or not using function.**
9. **1. Make a flow chart to input any number and find given number is even or odd.**
   II. Make a flow chart to input two number and print largest number.
10. **I. Make a flow chart to find all the roots of a quadratic equation ax2+bx+c=0.**
    II. Write an algorithm to convert temperature from Celsius to Fahrenheit
11. **Write a function to find volume of sphere and hemi sphere.**
12. **WAP to print Salary Slip of any Employee with following details: EmpID, Name, Father Name, Basic Pay, TA(21%), DA(24%), HRA(27%), Gross Pay, PF(35%) and Net Salary.**
13. **Write a program to accept percentage from the user and display grade according to following criteria:**
    Percent>=90 then A grade , Percent>=80 and <90 then B grade , Percent>=60 and <80 then C grade and below 60 D grade
14. **What is NumPy? Find arithmetic operation (Addition, subtraction, Multiplication & division) using two matrix.**
15. **WAP to find factorial of given number using recursive function.**

Last date of submission: 24 May 2025