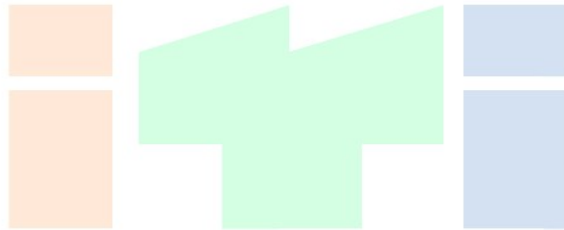


Instructions for Assignments:

- ❖ **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**



Industrial Training 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.
 - I. 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 $ax^2+bx+c=0$.
 - 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