**Practical-1**

**Topics: Basic elements, Basic data types, Branching statements, iterations, control structures, ‘input’ and ‘print’ statements**

1. Develop a Python program to demonstrate usage of the ‘input’ and ‘print’ statements.
2. Develop a Python program to input two numbers from keyboard, and perform various arithmetic operations such as summation, subtraction, multiplication and division.
3. Modify the above program# 2 so that arithmetic operations are performed if both the operand inputs are numeric.
4. Develop a Python program to input student details: rollno, name and marks of 4 subjects from user. Calculate total marks, percentage and grade. Print mark-sheet.
5. Develop a python program to input employee details: empno, name, gender, basic-salary from user. Calculate DA (80% and 70% of basic salary for male & female employees respectively), HRA (10% and 15% of basic salary for male & female employees respectively) and net salary. Also calculate gross (yearly) salary which also includes bonus (50% and 52% of basic salary for male & female employees respectively).
6. Print multiplication table of a number N.
7. Perform program# 4 for 4 students. Print a marks summary report for all students. (Make sure that valid marks are entered through keyboard.)
8. Develop a python program for the following:
9. Find reverse of a given number.
10. Check whether a given string is palindrome or not.
11. Develop Python programs for the following:

|  |  |
| --- | --- |
| Input: python | Input: 5 |
| p  p y  p y t  p y t h  p y t h o  p y t h o n | 5 4 3 2 1  4 3 2 1  3 2 1  2 1  1 |