

## Lab 5

### Python

1. Write a program to find left shift and right shift values of a given number.
2. Using membership operator find whether a given number is in sequence (10,20,56,78,89)
3. Using membership operator find whether a given character is in a string.
4. Check whether a given number is divisible by 3 and 5 both.
5. Check whether a given number is multiple of 5 or not.
6. Find the greatest among two numbers. If numbers are equal than print “numbers are equal”.
7. Find the greatest among three numbers assuming no two values are same.
8. Check whether the quadratic equation has real roots or imaginary roots. Display the roots.
9. Write a program to find whether a given year is a leap year or not.
10. Print the grade sheet of a student for the given range of cgpa. Scan marks of five subjects and calculate the percentage.

CGPA=percentage/10

CGPA range:

0 to 3.4 -> F  
3.5 to 5.0->C+  
5.1 to 6->B  
6.1 to 7-> B+  
7.1 to 8-> A  
8.1 to 9->A+  
9.1 to 10-> O (Outstanding)

Sample Grade sheet

Name: Rohit Kumar

Roll Number: R17234512

SAPID: 50005673

Sem: 1

Course: B.Tech. CSE AI & ML

Subject name: Marks

PDS: 70

Python: 80

Chemistry: 90

English: 60

Physics: 50

Percentage: 70%

CGPA:7.0

Grade: A