JAYPEE UNIVERSITY OF ENGINEERING & TECHNOLOGY, GUNA
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
Computer Programming Lab (14B17CI171)
B.Tech. (CSE/ECE/MECH/CE/CHE) Semester-I

Lab Experiment-6

C Programs: Decision Control

Syntax:

IF Statements	IF - ElSE Statements	NESTED IF Statements	IF – ELSE IF Statements

if(expression)
{
stmt 1;
stmt 2;
…….
}
	if(expression)
	{
	stmt 1;
	stmt 2;
	…….
	}
	else
	{
	stmt 1;
	stmt 2;
	…….
	}
		if(expression)
		{
		stmt;
		……..
		if(expression)
		{
		stmt;
		……..
		if(expression)
		{
		stmt;
		……..
		}
		stmt;
		}
		if(expression)
		{
		stmt;
		}
		}
			if(expression)
			{
			stmt;
			……..
			}
			else if(expression)
			{
			stmt;
			……..
			}
			else if(expression)
			{
			stmt;
			……..
			}
			else
			{
			stmt;
			…….
			}

Practice

1. Any integer is input through the keyboard. Write a program to find out whether it is an odd number or even number.
2. Any year is input through the keyboard. Write a program to determine whether the year is a leap year or not.
3. If the ages of Ram, Shyam and Ajay are input through the keyboard, write a program to determine the youngest of the three.

4. Write a program to check whether a triangle is valid or not, when the three angles of the triangle are entered through the keyboard. A triangle is valid if the sum of all the three angles is equal to 180 degrees.
5. Given the length and breadth of a rectangle, write a program to find whether the area of the rectangle is greater than its perimeter. For example, the area of the rectangle with length = 5 and breadth = 4 is greater than its perimeter.
6. Given three points **(x1, y1)**, **(x2, y2)** and **(x3, y3)**, write a program to check if all the three points fall on one straight line.
7. Write a program to find the greatest of the three numbers entered through the keyboard using conditional operators.
8. Any character is entered through the keyboard; write a program to determine whether the character entered is a capital letter, a small case letter, a digit or a special symbol.
9. Write a program to check whether a number (entered by the user) is negative or positive.
10. Write a program to check whether an alphabet entered by the user is a vowel or a consonant.