

**ASSIGNMENT 2 SELECTION I (if else)**

1. Write a program to accept two numbers and display division of the two numbers. Check for divide by zero error. If divider is zero then display appropriate error message.
2. Input a number and display whether number is Even or Odd.
3. Write a program to accept number and check whether the number is +ve, -ve and zero.
4. Write a program to find maximum of two numbers using
  - a. If – else
  - b. conditional operator.
5. Write a program to find maximum of three numbers using
  - a. If – else
  - b. conditional operator.
6. Write a program to accept a 5 digit number and check whether it is a numeric palindrome. (If reversed number is same as entered number it is called palindrome).
7. Write a program to display number of days in the given year. Check condition for leap year. A year is a leap year if it is divisible by 4 but not by 100, except that years divisible by 400 are leap years.
  - a. Without using logical operators
  - b. Using logical operators
  - c. Conditional operator
8. Write a program that will calculate the price for a quantity entered from the keyboard, given that the unit price is Rs 5 and there is a discount of 10 percent for quantities over 30 and a 15 percent discount for quantities over 50.
9. Write a program to display number of days in the given month and year using
  - a. Using If else ladder.
  - b. Using logical operators.
10. Write a program to accept a character c and display category of the input character.

ALPHABET	: c is a letter (65 to 90 or 97 to 122)
UPPERCASE	: c is an uppercase letter (65 to 90)
LOWERCASE	: c is a lowercase letter (97 to 122)
DIGIT	: c is a digit (48 to 57)
SPACE	: c is a space(32), tab(9), carriage return(13), new line(10)
OTHER	: Not listed above
13. Write a program to accept a point in Cartesian co-ordinate system and decide the quadrant in which the point lies. Also check for special cases point lies on  $\pm x$  axis,  $\pm y$  axis, origin.

**ASSIGNMENT 2 SELECTION II (switch case)**

1. Write a program to display number of days in the given month and year using switch case statement.
2. Write a program to create four function calculator. Four functions are +, -, \*, /
3. Write a program to accept Employee Id, Department No, Designation from user and display output with reference to following tables

DeptNo	Dept Name	DsgnCode	Designation
10	Marketing	'M'	Manager
20	Management	'S'	Supervisor
30	Sales	's'	Security Officer
40	Designing	'C'	Clerk

**Example:**

If input given is

Employee Id : 101

Dept No : 30

Designation Code : M

Then output should be:

Employee with employee id **101** is working in "**Sales**" department as "**Manager**".

4. Write a program to display day of week from given date (day, month and year).