Basic Programming Lab

— — 0x03

Ternary Operator

Syntax: **variable = exp1 ? exp2 : exp3;**

// Program to find Largest number between 2 nos.

```c
#include<stdio.h>

int main()
{
        int Number_1 = 10;
        int Number_2 = 20;
        char Result;

        Result = (Number_1 > Number_2)? 'Y':'N';
        printf("Result: %c", Result);

        return 0;
}
```

C Relational Operators

Operator	Meaning of Operator
>	Greater than
<	Less than
>=	Greater than or Equal to
<=	Less than or Equal to
!=	Not Equal to
==	Equal to

Square Root of a No

```c
// Library File: math.h
// Program to find square root of a no

#include<stdio.h>
#include<math.h>

int main()
{
    int Number_1 = 9, Result;
    Result = sqrt(Number_1);
    printf("Result: %d", Result);

    return 0;
}
```

Assignment

//Use **scanf** for input in Every Program

1. Write a program to find whether the number is **odd or even** using **ternary operator.**

2. Write a program to check whether the two **character inputs** are equal or not using **ternary operator.**

Input1 = A, Input2 = a, Output = Not Equal

3. Write a program to add two times. (Time Format = hh:mm:ss)

Example: 06:07:08 & 04:05:06 = 10:12:14

4. Write a program to print the next character. Take 3 character input. (Use Unary Operator)

Input : Char_1 = A, Char_2 = B, Char_3 = C
Output: Char_1 = B, Char_2 = C, Char_3 = D

5. Prestigious Bank of India needs your help to create a software. They need a software to calculate the total money deposited by customer which can be 500/200/100/50/20/10 banknotes.

Input:
How many 500 Note: 2
How many 200 Note: 3
How many 100 Note: 4
How many 50 Note: 5
How many 20 Note: 6
How many 10 Note: 7

Output:
Total Money : Rs 2440

6. A good friend of mine from Mathematics Department asked for my help and I cannot turn down her request. She needs a program to find the length of a straight line formed by two end points. Write a program for that and Co-ordinates would be given as inputs. (Use sqrt function from math.h)

Input : X1 = 1, Y1 = 2, X2 = 3, Y2 = 4
Output: Length = 2.828427

Points to Remember

1. Filetype: .c

2. Naming Convention for Directory: Assignment_X
      where X = Lab No
      example: Assignment_1

3. Naming Convention for File: RollNo_Q_Y.c
      where Y = Question No in that Assignment
      example: 123XXX4567_Q_1.c

Commands:

	Command	Example
Create Directory	mkdir <directory_name>	mkdir test_directory
Create File	vi <filename>	vi test.c
Compile a C Program	gcc <filename>	gcc test.c
Run a C Program	./a.out	

4. Write your details in every program

```
/*
  ----------------------------------------------------
 |Author : Your_Name                                  |
 |Roll No: Your_Roll_No                               |
 |Department: Your_Department                         |
  ----------------------------------------------------
*/
```