Practical No.03

Aim: Programs based on control statement (if, switch)

1. C Program to find out the n umber is a Pythagoras triplet

Program:

Output:

Enter three numbers: 5 4 3 Numbers are Pythagorean triplets

```
DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program: TC

Enter three numbers: 5 4 3

Numbers are Pythagorean triplates
```

2. C Program to Relate Two Integers using Nested If...else statement.

Program:

```
// Program to relate two integers using =, > or <
#include<stdio.h>
#include<conio.h>
void main()
    int number1, number2;
    clrscr();
    printf("Enter two integers:\t");
    scanf("%d %d", &number1, &number2);
//checks if two integers are equal.
    if(number1 == number2)
            printf("Result: %d = %d", number1, number2);
//checks if number1 is greater than number2.
    else if (number1 > number2)
            printf("Result: %d > %d", number1, number2);
// if both test expression is false
    else
            printf("Result: %d < %d", number1, number2);</pre>
    getch();
}
Enter two integers: 12
Result: 12 < 23
```

Output:

```
DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program:
Enter two integers:
Result: 12 < 23
```

C program to print days of week name using switch case 3.

Program:

//C program to print day of week using switch case

```
#include <stdio.h>
#include <conio.h>
void main()
    int week;
    clrscr();
//Reads week number from user
    printf("Enter week number(1-7): ");
    scanf("%d", &week);
    switch (week)
        case 1: printf("MONDAY");
            break;
        case 2: printf("TUESDAY");
            break;
        case 3: printf("WEDNESDAY");
            break;
        case 4: printf("THURSDAY");
            break;
        case 5: printf("FRIDAY");
            break;
        case 6: printf("SATURDAY");
            break;
        case 7: printf("SUNDAY");
            break;
        default: printf("Invalid input! Please enter week number
between 1-7");
    }
    getch();
}
```

Output:

```
Enter week number(1-7): 1
MONDAY
```

```
DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program: TC

Enter week number(1-7): 1
MONDAY
```

4. C Program to Print 1 To 10 Number using goto statement

Program:

```
//Write a C Program Which Print 1 To 10 Number Using goto statement.
#include<stdio.h>
#include<conio.h>
void main()
{
```

Output:

```
DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program: TC

1
2
3
4
5
6
7
8
9
10
```