

## **PRACTICAL-2: Program To Implement Conditional Statements.**

### **1. Program that check whether the two no. entered by user are equal or not.**

```
#include <stdio.h>

int main() {
    int a,b;
    printf("enter two no. :");
    scanf("%d%d",&a,&b);
    if(a==b)
    {
        printf("entered no. are equal");
    }
    else
    {
        printf("entered no. are not equal");
    }
}
```

### **2. Program to find the greatest among three numbers.**

```
#include <stdio.h>

int main() {
    int a,b,c;
    printf("entered three no. :");
    scanf("%d%d%d",&a,&b,&c);
    if(a>b&&a>c)
        printf("a is the greatest among 3 no.:%d",a);
    else if(b>c && b>a)
        printf("b is the greatest among 3 no.:%d",b);
    else
        printf("c is the greatest among 3 no.:%d",c);
}
```

### **3. Program to find given no. is even or odd.**

```
#include <stdio.h>

int main() {

    int a;

    printf("enter a no. :");

    scanf("%d",&a);

    if(a%2==0)

    {

        printf("no. is even");

    }

    else

    {

        printf("no. is odd");

    }

}
```

### **4. Program that tells whether a given year is leap or not.**

```
#include <stdio.h>

int main() {

    int a;

    printf("enter a year :");

    scanf("%d",&a);

    if((a%4==0) && ((a%400==0) || (a%100!=0)))

    {

        printf("entered year is leap year.");

    }

    else

    {

        printf("entered year is not leap year.");

    }

}
```

5. The working hour based on age of the laborer is given:

Age	working hour
0-10	0
11-15	0
16-20	3
20-25	6
>25	8

Write a program to calculate working hours of a person for a given age.

```
#include <stdio.h>

int main() {
    int age;

    printf("enter age:");
    scanf("%d",&age);

    if(age>25)
        printf("total working hour or a person:8");
    if(age>21&&age<25)
        printf("total working hour or a person:6");
    if(age>16&&age<20)
        printf("total working hour or a person:3");
    if(age>11&&age<15)
        printf("total working hour or a person:0");
    if(age>=0&&age<10)
        printf("total working hour or a person:0");

    getch();
}
```

**6. Write the program to finds the roots of a quadratic equation.**

```
#include <stdio.h>

#include<math.h>

void main() {

    float a,b,c,x1,x2,d;

    printf("enterd the value of a,b,c:");

    scanf("%f%f%f",&a,&b,&c);

    d=b*b-4*a*c;

    if(d>0)

    {

        x1=-b+sqrt(d)/(2*a);

        x2=-b-sqrt(d)/(2*a);

        printf("the real roots:%f,%f",x1,x2);

    }

    else if(d==0)

    {

        x1=-b/(2*a);

        x2=-b/(2*a);

        printf("roots are equal:%f,%f",x1,x2);

    }

    else

    {

        printf("roots are imaginary.");

    }

    getch();

}
```

**7. Write a program to print the given no. is even or odd using “Conditional operator”.**

```
#include <stdio.h>

void main() {
    int n;
    printf("entered no. :");
    scanf("%d",&n);
    printf(n%2==0 ? "entered no. is even." : "entered no. is odd");
    getch();
}
```