```c
#include<stdio.h>
int main ()
{
    int n;
    printf("Enter Month Number : ");
    scanf("%d", &n);
    switch(n)
    {
        case 1:
        printf("\n31 Days ");
        break;
        case 2:
        printf("\n28 Days ");
        break;
        case 3:
        printf("\n31 Days ");
        break;
        case 4:
        printf("\n30 Days ");
        break;
        case 5:
        printf("\n31 Days ");
        break;
        case 6:
        printf("\n30 Days ");
        break;
        case 7:
        printf("\n31 Days ");
        break;
        case 8:
        printf("\n31 Days ");
```

```c
            break;
        case 9:
        printf("\n30 Days ");
        break;
        case 10:
        printf("\n31 Days ");
        break;
        case 11:
        printf("\n30 Days ");
        break;
        case 12:
        printf("\n31 Days ");
        break;
        default:
        printf("\nInvalid Month Number !!!");
    }
    printf("\n");
    return 0;
}
```

2)

```c
#include<stdlib.h>
#include<stdio.h>
int main ()
{
    int n;
    int a,b;
    printf("1. Addition\n");
    printf("2. Subtraction\n");
    printf("3. Multiplication\n");
    printf("4. Division\n");
    printf("5. Exit\n");
    printf("Enter Choice Number : ");
```

```c
scanf("%d", &n);
switch(n)
{
    case 1:
    printf("\nEnter a first number = ");
    scanf("%d",&a);
    printf("\nEnter a first number = ");
    scanf("%d",&b);
    printf("\nAddition of two numbers = %d",a+b);
    break;
    case 2:
    printf("\nEnter a first number = ");
    scanf("%d",&a);
    printf("\nEnter a first number = ");
    scanf("%d",&b);
    printf("\nSubtraction of two numbers = %d",a-b);
    break;
    case 3:
    printf("\nEnter a first number = ");
    scanf("%d",&a);
    printf("\nEnter a first number = ");
    scanf("%d",&b);
    printf("\nMultiplication of two numbers = %d",a*b);
    break;
    case 4:
    printf("\nEnter a first number = ");
    scanf("%d",&a);
    printf("\nEnter a first number = ");
    scanf("%d",&b);
    printf("\nDivision of two numbers = %d",a/b);
    break;
    case 5:
```

```c
            exit(0);
            break;
        default:
        printf("\nInvalid Month Number !!!");
    }
    printf("\n");
    return 0;
}
```

3)

```c
#include<stdio.h>
int main ()
{
    int n;
    printf("Enter your Week number : ");
    scanf("%d",&n);
    switch(n)
    {
        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 number");
```

```c
    }
    printf("\n");
    return 0;
}
```

4)

```c
#include<stdio.h>
int main ()
{
    int n,a=3,b=4,c=5;
    printf("\n1. To check for Isosceles Triangle");
    printf("\n2. To check for Right Angle Triangle");
    printf("\n3. To check for Equilateral Triangle");
    printf("\nEnter your Choice : ");
    scanf("%d",&n);
    switch(n)
    {
        case 1: if(a==b || b==c || c==a)
                    printf("Isosceles Triangle");
                else
                    printf("Not Isosceles Triangle");
                break;
        case 2: if((a*a + b*b == c*c) || (b*b + c*c == a*a) || (c*c + a*a == b*b))
                    printf("Right Angle Triangle");
                else
                    printf("Not Right Angle Triangle");
                break;
        case 3: if(a==b && b==c)
                    printf("Equilateral Triangle");
                else
                    printf("Not Equilateral Triangle");
                break;
```

```c
        default: printf("Invalid number");

    }
    printf("\n");
    return 0;
}
```

5)

```c
#include<stdio.h>
int main ()
{
    int n;

    printf("\nEnter your number : ");
    scanf("%d",&n);
    switch(n)
    {
        case 1: printf("good");
            break;
        case 2: printf("better");
            break;
        case 3: printf("best");
            break;
        default: printf("Invalid");

    }
    printf("\n");
    return 0;
}
```

6)

```c
#include<stdio.h>
int main ()
```

```c
{
    int n;

    printf("\nEnter a Year : ");
    scanf("%d",&n);
    switch(n%100==0)
    {
        case 1: switch(n%400==0)
            {
                case 1: printf("Leap Year");
                    break;
                case 0: printf("Not a Leap Year");
                    break;
            }
            break;
        case 0: switch(n%4==0)
            {
                case 1: printf("Leap Year");
                    break;
                case 0: printf("Not a Leap Year");
                    break;
            }
            break;
        default: printf("Invalid");

    }
    printf("\n");
    return 0;
}
```

7)

```c
#include<stdio.h>
int main ()
```

```c
{
    int x;
    float cal=0, amt=0;
    printf("Your Electricity Units = ");
    scanf("%d",&x);
    switch(x<=50)
    {
        case 1:
        cal=x*0.5;
        printf("Your Electricity Bill = %f",cal);
        amt= cal*0.2;
        printf("\nYour Electricity Bill after taxes = %f",cal+amt);
        break;
        case 0: switch(x<=150)
            {
                case 1:
                cal= (25+((x-50)*0.75));
                printf("Your Electricity Bill = %f",cal);
                amt= cal*0.2;
                printf("\nYour Electricity Bill after taxes = %f",cal+amt);
                break;
                case 0: switch(x<=250)
                    {
                        case 1:
                        cal= (100+((x-150)*1.2));
                        printf("Your Electricity Bill = %f",(100+(x*1.2)));
                        amt= cal*0.2;
                        printf("\nYour Electricity Bill after taxes = %f",cal+amt);
                        break;
                        case 0:
                        cal= (220+((x-250)*1.5));
                        printf("Your Electricity Bill = %f",cal);
```

```c
                    amt= cal*0.2;

                    printf("\nYour Electricity Bill after taxes = %f",cal+amt);

                    break;

                }

            break;

        }

    break;

    }

    printf("\n");

    return 0;

}
```

8)

```c
#include<stdio.h>

int main ()

{

    int n;


    printf("\nEnter a Number : ");

    scanf("%d",&n);

    switch(n>=0)

    {

        case 1: printf("Number = -%d",n);

                break;

        case 0: printf("Number = %d",(-n));

                break;

        default: printf("Invalid");


    }

    printf("\n");

    return 0;

}
```

```c
#include<stdio.h>
int main ()
{
    int n;


    printf("\nEnter a Number : ");
    scanf("%d",&n);
    switch(n%2==0)
    {
        case 1: printf("Nearest Upper Odd number = %d", n+1);
        break;
        case 0: printf("Odd number = %d", n);
        break;
        default: printf("Invalid");
    }
    printf("\n");
    return 0;
}
```

```c
#include<math.h>
#include<stdio.h>
int main ()
{
    float a,b,c;
    float d,e;
    float res,res1;
    printf("\nEnter Value of a : ");
    scanf("%f",&a);
    printf("\nEnter Value of b : ");
    scanf("%f",&b);
    printf("\nEnter Value of c : ");
```

```c
    scanf("%f",&c);

    printf("Your Equation is %f x^2 + %f x + %f ",a,b,c);

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

    e= (4*a*c)-(b*b);

    res= sqrt(d);

    res1= sqrt(e);

    switch(d==0)

    {

        case 1: printf("Your roots are = %f and %f",(-b/(2*a)),(-b/(2*a)));

        break;

        case 0: switch(d>0)

            {

                case 1: printf("Your roots are = %f and %f",((-b/(2*a))+ (res)/(2*a)),((-b/(2*a))-
(res)/(2*a)));

                break;

                case 0: printf("Your roots are = %f i and %f i",((-b/(2*a))+ (res1)/(2*a)),((-b/(2*a))-
(res1)/(2*a)));

                break;

            }

        break;

        default: printf("Invalid");

    }

    printf("\n");

    return 0;

}
```