

1.To check positive or negative

```
#include <stdio.h>
int main() {
    int num;
    printf("enter a number:");
    scanf("%d",&num);
    if (num>0){
        printf(" %d is positive\n",num);
    }else if(num<0){
        printf("%d is negative\n",num);
    }else{
        printf("%d is zero\n",num);
    }
    return 0;
}
```

2.odd or even

```
#include <stdio.h>
int main() {
    int num;
    printf("enter a number:");
    scanf("%d",&num);
    if (num%2==0){
        printf(" %d is even\n",num);
    }else{
        printf("%d is odd\n",num);
    }
    {
        return 0;
    }
}
```

3.leap year or not

```
#include <stdio.h>
int main() {
    int year;
    printf("enter the year:");
    scanf("%d",&year);

    if((year%4==0&&year%100!=0)||year%400==0){
        printf("%d is leap year\n",year);
    }else{
        printf("%d is not a leap year\n",year);
    }
}
```

4.palindrome or not

```
#include<stdio.h>
int main(){
    int n,revnum=0,remnum,num;
    printf("Enter the number: ");
    scanf("%d",&n);
    num=n;
    while(n!=0){
        remnum=n%10;
        revnum=revnum*10+remnum;
        n/=10;}
    if(num==revnum)
        printf("%d is palindrome",num);
    else
        printf("%d is not palindrome",num);
    return 0;
}
```

5.simple calculator

```
#include <stdio.h>

int main()
{
    int a,b;
    char oper;
    printf("Enter the number1: ");
    scanf("%d",&a);

    printf("Enter the number2: ");
    scanf("%d",&b);

    printf("Enter the operator");
    scanf("%s",&oper);

    if(oper=='+')
    {
        printf("The sum is %d\n",a+b);
    }
    else if(oper=='-'){
        printf("The difference is %d\n",a-b);
    }
    else if(oper=='*'){
        printf("The product is %d\n",a*b);
    }
    else if(oper=='/'){
        if(b!=0)
        {
            printf("The division is %d\n",a/b);
        }
    }
}
```

```

    }
    else{
        printf("The division by zero is not possible.\n");
    }
    else
    {
        printf("Invalid operator.\n");
    }
}
}

```

5.using switch case calculator program

```

#include <stdio.h>
int main()
{
    int a,b;
    char oper;
    printf("Enter the number1:");
    scanf("%d",&a);
    printf("Enter the number2:");
    scanf("%d",&b);
    printf("Enter the operator");
    scanf(" %c",&oper);
    switch(oper)
    {
        case '+':
            printf("The sum is %d", a+b);
            break;
        case '-':
            printf("The subtract is %d", a-b);
            break;
        case '*':
            printf("The multiplication is %d", a*b);
            break;
        case '/':
            if(b!=0){
                printf("The division is %d",a/b);
            }
            else{
                printf("division is not possible by zero");
            }
            break;
    }
}

```