WAP to ask the user to input numbers continuously and as soon as the user inputs 0 , display the sum of all the numbers inputted before 0

Input numbers and press 0 to stop:
10 ✓
5 ✓
7 ✓
11 ✓
0 ✓
Sum is 33

```
int main()
{
    int n, sum=0;
    printf("Input numbers and press 0 to stop:");
    for( ; ; )
    {
        scanf("%d", &n);
        if(n==0)
            break;
        sum=sum+n;
    }
    printf("\n Sum is %d", sum);
    return 0;
}
```

Modify the previous code so that if the user inputs negative nos then your program ignores them

7
5
-4
11
9
-7
0

```
int main()
{
    int n, sum=0;
    printf("Enter nos and press 0 to stop");
    for( ; ; )
    {
        scanf("%d", &n);
        if(n==0)
            break;
        else if(n<0)
            continue;
        sum=sum+n;
    }
    printf("\n Sum is %d", sum);
    return 0;
}
```

Various Forms of "for" Loop

```
for( init 1, init 2, .... ; test 1 Lop test 2 ; shtm 1, shtm 2, -- )
{
   ==
   ==
   ==
   ==
}
```

Lop ← logical op

```
int main()
{
   int i, j;
   for(i=1, j=10; i<=10 && j>=1 ; i++, j--)
      printf("\n %d %d", i, j);
   return 0;
}
```

O/p

1	10 ✓
2	9 ✓
.	.
.	.
.	.
10	1

Test Cond Checked : 21

```
int main()
{
    int i, j;
    for(i=1, j=10; i<=10 && j>=5; i++, j--)
        printf("\n %d %d", i, j);
    return 0;
}
```

o/p

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

Test Cond
Checked : 14

```
int main()
{
    int i, j;
    for(i=1, j=10; i<=10 || j>=5; i++, j--)
        printf("\n %d %d", i, j);
    return 0;
}
```

o/p

```
1   10
.   .
.   .
.   .
10  1
```

Test Cond
Checked : 12

```
int main()
{
    int i;
    for(i=1; i<=10; i++);
    {
        printf("\n %d", i);
    }
return 0;
}
```

o/p
=
11

Our Code

```
for(i=1; i<=10; i++);
{
    printf("\n %d", i);
}
```

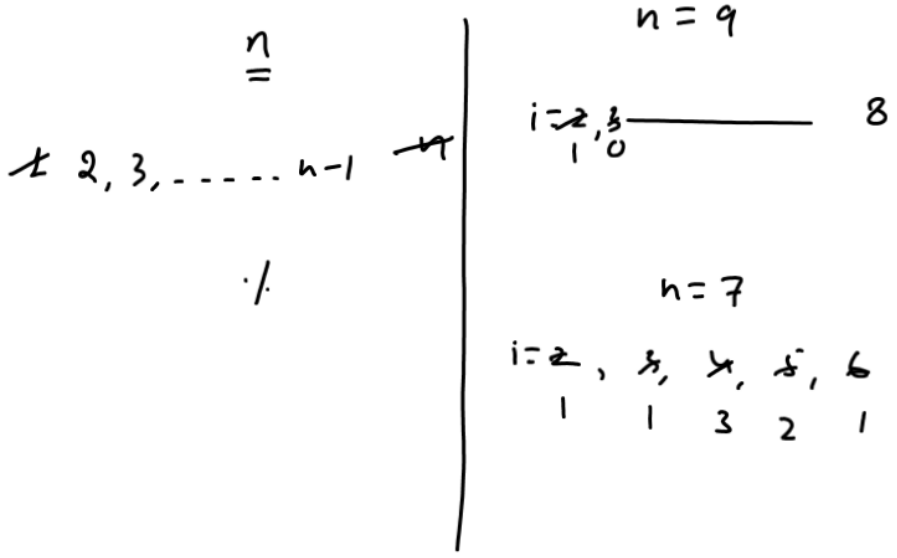
Compiler's Code

```
for(i=1; i<=10; i++)
{
}
{
    printf("\n %d", i);
}
```

```
int main()
{
    int n=5;

if(n%2==0)                 |  if(n%2==0);
{                          |      printf("%d is even no", n);
}                          |
printf("%d is even no");    |
                           |
return 0;
}
```

WAP to accept an integer from the user and check whether it is a PRIME NUMBER or not. Assume that the user will input POSITIVE numbers greater than 1 only.



```
int main()
{ int i, n;
  printf("Enter an int:");
  scanf("%d", &n);
  for(i=2; i<=n-1; i++)
  {
      if(n%i==0)
      {
          printf("Not prime");
          break;
      }
  }
  if(i==n)
  {
      printf("No is prime");
  }
  return 0;
}
```

n=2	n=9	n=7
i=2	i=2 3	i=2 3 4 5 6 7