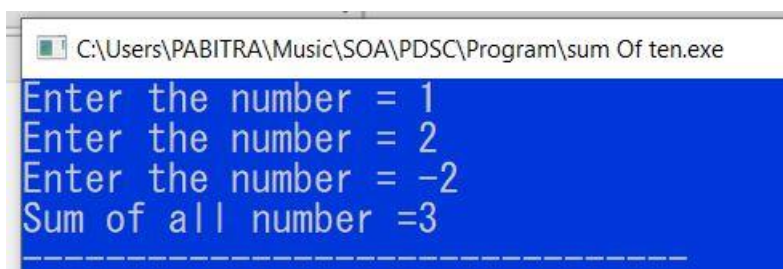


## Assignment 6 – Pabitra Pattanaik

1. Calculate the sum of numbers (10 numbers max) & If the user enters a negative number, the loop terminates ?

**Answer :**

```
#include<stdio.h>
void main()
{
    int num, i, sum=0;
    for(i=0;i<=10;i++)
    {
        printf("Enter the number = ");
        scanf("%d",&num);
        if( num<0 )
            break;
        sum= sum+num;
    }
    printf("Sum of all number =%d",sum);
}
```



```
C:\Users\PABITRA\Music\SOA\PDSC\Program\sum Of ten.exe
Enter the number = 1
Enter the number = 2
Enter the number = -2
Sum of all number =3
-----
```

2. Calculate the sum of numbers (10 numbers max) & If the user enters a negative number, it's not added to the result ?

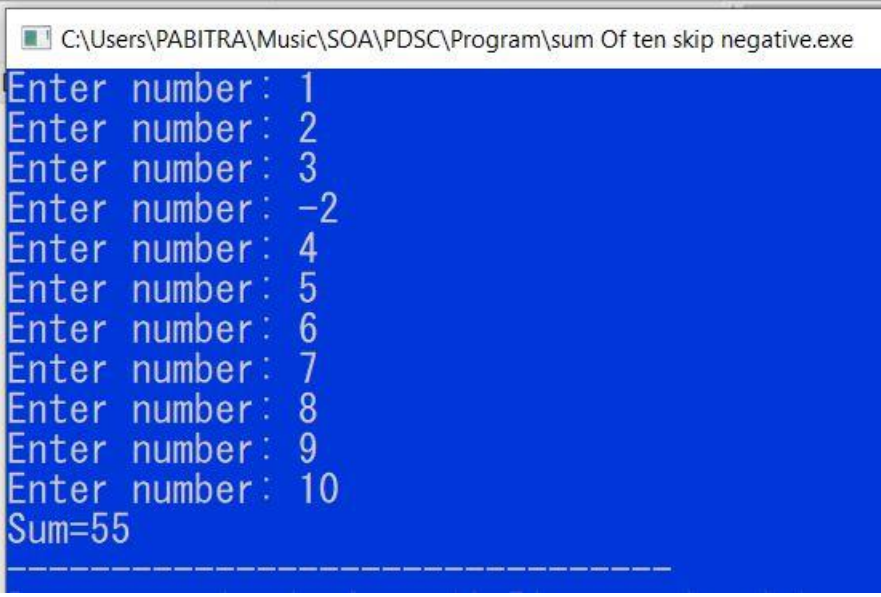
**Answer :**

```
#include<stdio.h>
void main()
{
    int num, i, sum=0;
```

```

        for(i=0;i<=10;i++)
        {
            printf("Enter number: ");
            scanf("%d",&num);
            if( num<0 )
                continue;
            sum= sum+num;
        }
        printf("Sum=%d",sum);
    }

```



```

C:\Users\PABITRA\Music\SOA\PDSC\Program\sum Of ten skip negative.exe
Enter number: 1
Enter number: 2
Enter number: 3
Enter number: -2
Enter number: 4
Enter number: 5
Enter number: 6
Enter number: 7
Enter number: 8
Enter number: 9
Enter number: 10
Sum=55
-----

```

### 3. Take input from the user until he/she enters zero. (Using Break) ?

**Answer :**

```

#include<stdio.h>
void main()
{
    int num;
    while(1)
    {
        printf("Enter the Number = ");
        scanf("%d",&num);
        if(num == 0)

```

```

        {
            printf("You entered 0 so the loop terminated");
            break;
        }
        printf("Number = %d\n",num);
    }
}

```

#### 4. Check whether the given number is prime or not.(Using Break) ?

**Answer :**

```

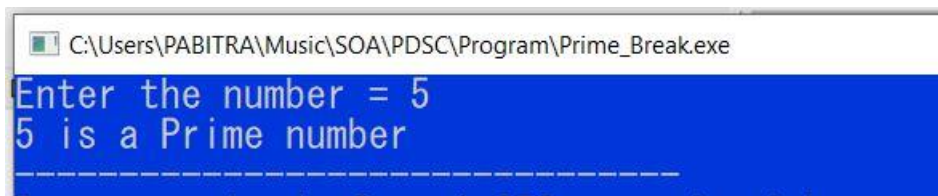
#include <stdio.h>
void main()
{
    int num, i, value;
    printf("Enter the number = ");
    scanf("%d", &num);
    value = 0;
    for (i = 2; i <= (num/2); i++)
    {
        if (num % i == 0)
        {
            value = 1;
            break;
        }
    }
}

```

```

    }
    if (num == 1)
    {
        printf("The number 1 is not a Prime number");
    }
    else
    {
        if (value == 0)
            printf("%d is a Prime number", num);
        else
            printf("%d is not a Prime number", num);
    }
}

```



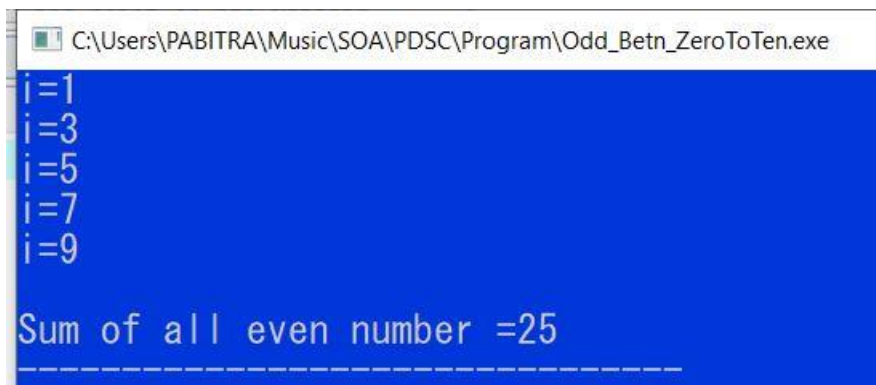
## 5. Print sum of odd numbers between 0 and 10. (Using Continue) ?

**Answer :**

```

#include<stdio.h>
void main()
{
    int num=10,i,sum=0;
    for(i=0;i<=num;++i)
    {
        if( i%2 == 0 )
            continue;
        printf("i=%d\n",i);
        sum= sum+i;
    }
    printf("\nSum of all even number =%d",sum);
}

```



```
C:\Users\PABITRA\Music\SOA\PDSC\Program\Odd_Betn_ZeroToTen.exe
i=1
i=3
i=5
i=7
i=9
Sum of all even number =25
-----
```

## 6. Check whether the given number is prime or not.(Using Continue) ?

**Answer :**

```
#include <stdio.h>
void main()
{
    int num, i, value;
    printf("Enter the number = ");
    scanf("%d", &num);
    value = 0;
    for (i = 2; i <= (num/2); i++)
    {
        if (num % i == 0)
        {
            value = 1;
            continue;
        }
    }
    if (num == 1)
    {
        printf("The number 1 is not a Prime number");
    }
    else
    {
        if (value == 0)
            printf("%d is a Prime number", num);
        else
            printf("%d is not a Prime number", num);
    }
}
```

```
}
}
```

```
C:\Users\PABITRA\Music\SOA\PDSC\Program\Prime_Continue.exe
Enter the number = 5
5 is a Prime number
-----
```

## 7. Print all even numbers from 1 to 100. (Using Continue)

?

**Answer :**

```
#include<stdio.h>
```

```
void main()
```

```
{
```

```
    int num=100,i,sum=0;
```

```
    printf("Even Number in between 1 to 100 = \n");
```

```
    for(i=1;i<=num;++i)
```

```
    {
```

```
        if( i%2 != 0 )
```

```
        continue;
```

```
        printf("Number = %d\t",i);
```

```
    }
```

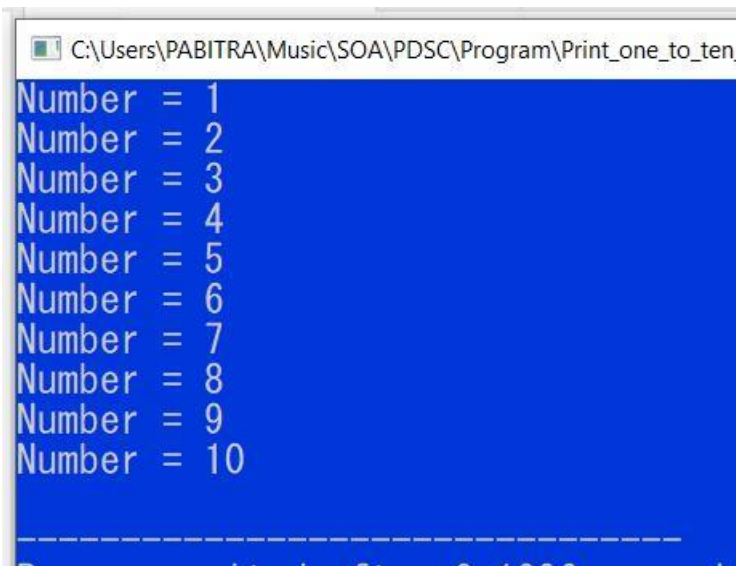
```
}
```

```
C:\Users\PABITRA\Music\SOA\PDSC\Program\Print_one_to_hundred.exe
Even Number in between 1 to 100 =
Number = 2    Number = 4    Number = 6    Number = 8    Number = 10   Number = 12   Number = 14   Number = 16
Number = 18   Number = 20   Number = 22   Number = 24   Number = 26   Number = 28   Number = 30
Number = 32   Number = 34   Number = 36   Number = 38   Number = 40   Number = 42   Number = 44
Number = 46   Number = 48   Number = 50   Number = 52   Number = 54   Number = 56   Number = 58
Number = 60   Number = 62   Number = 64   Number = 66   Number = 68   Number = 70   Number = 72
Number = 74   Number = 76   Number = 78   Number = 80   Number = 82   Number = 84   Number = 86
Number = 88   Number = 90   Number = 92   Number = 94   Number = 96   Number = 98   Number = 100
-----
```

**8. Print numbers from 1 to 10 using goto statement.  
(Using goto) ?**

**Answer :**

```
#include <stdio.h>
void main ()
{
    int num = 0;
    do
    {
        num++;
        goto jump;
    jump:
        printf("Number = %d\n", num);
    }
    while( num < 10 );
}
```



**9. Program to calculate the sum and average of positive numbers, If the user enters a negative number, the sum and average are displayed. (Using goto) ?**

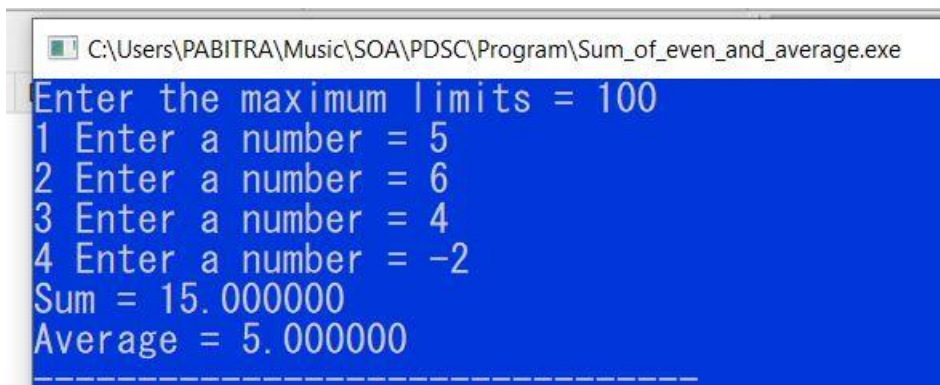
**Answer :**

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

```

{
int i,n;
float num, average, sum = 0;
    printf("Enter the maximum limits = ");
    scanf("%d",&n);
    for (i = 1; i <= n; i++)
    {
        printf("%d Enter a number = ", i);
        scanf("%f",&num);
        if (num < 0.0)
        {
            goto jump;
        }
        sum = sum+num;
    }
jump:
    average = sum / (i - 1);
    printf("Sum = %f\n", sum);
    printf("Average = %f", average);
return 0;
}

```



```

C:\Users\PABITRA\Music\SOA\PDSC\Program\Sum_of_even_and_average.exe
Enter the maximum limits = 100
1 Enter a number = 5
2 Enter a number = 6
3 Enter a number = 4
4 Enter a number = -2
Sum = 15.000000
Average = 5.000000

```

## 10. Check if a number is even or not. (Using goto) ?

**Answer :**

```

#include<stdio.h>
int main()
{
    int num;

```



```
printf("Enter the Number = ");
scanf("%d",&num);
if(num%2==0)
{
    goto even;

}
else
{
    goto odd;
}
even:
printf("The Number Is Even");
odd:
printf("The Number is Odd Number");
return 0;
}
```

