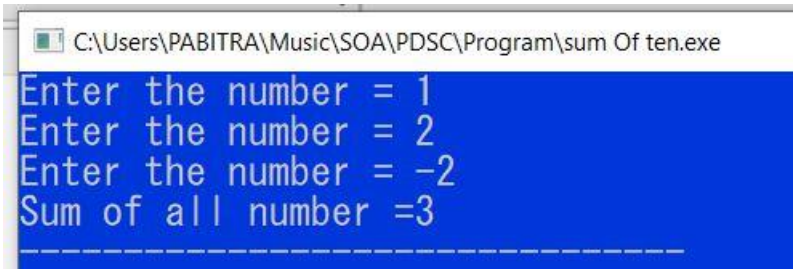
Assignment 6 – Pabitra Pattanaik

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);
}
```

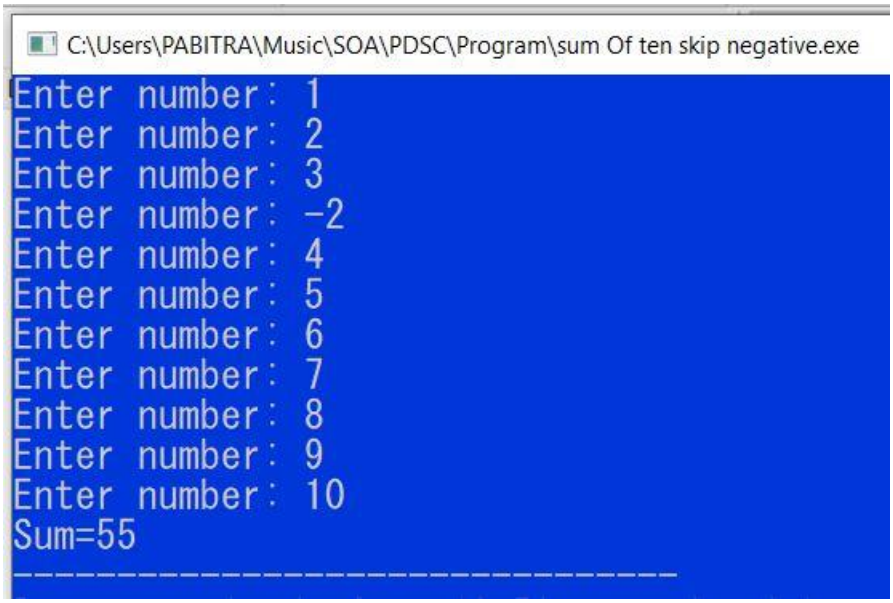


2. **Calculate the sum of numbers (10 numbers max) & If the user enters a negative number, it's not added to the result ?**

   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);
}
```

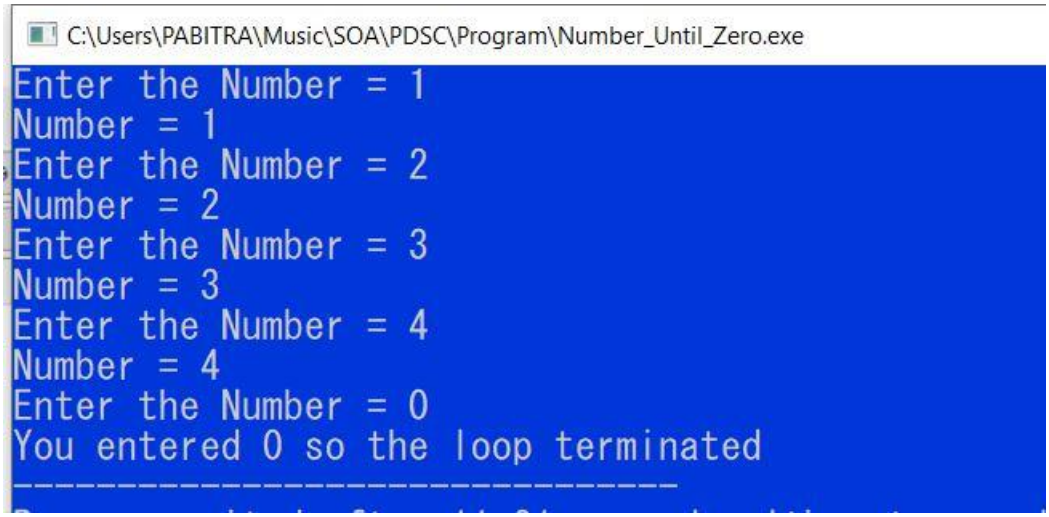


3. Take input from the user until he/she enters zero. (Using Break) ?

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);
        }
}
```

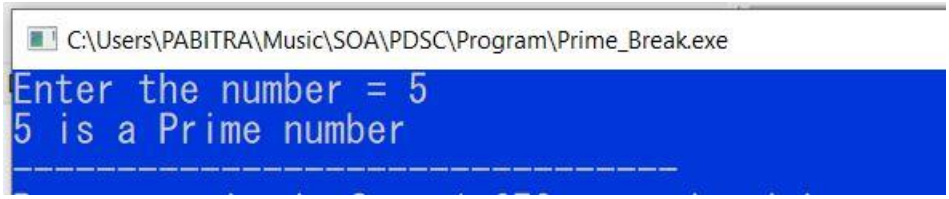


4. Check whether the given number is prime or not.(Using Break) ?

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;
      }
```

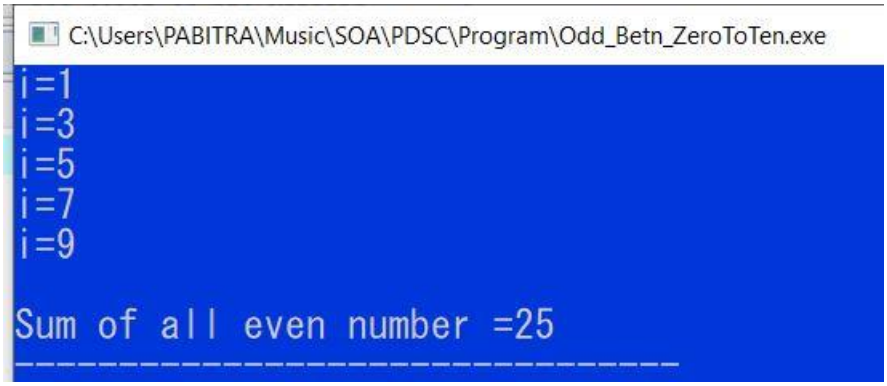
```
    }
    if (num == 1)
          {
       printf("The number 1 is not a Prime number");
    }
    else
          {
       if (value == 0)
          printf("%d is a Prime number", num);
       else
          printf("%d is not a Prime number", num);
    }
}
```



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);
}
```

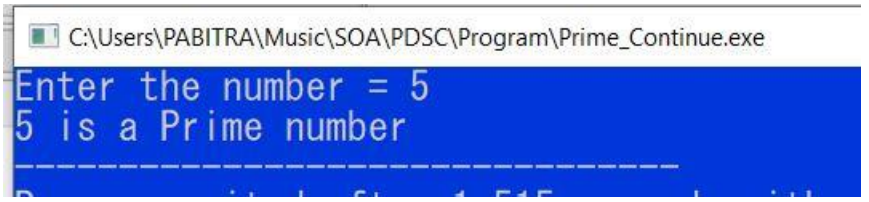


6. Check whether the given number is prime or not.(Using Continue) ?

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);
```

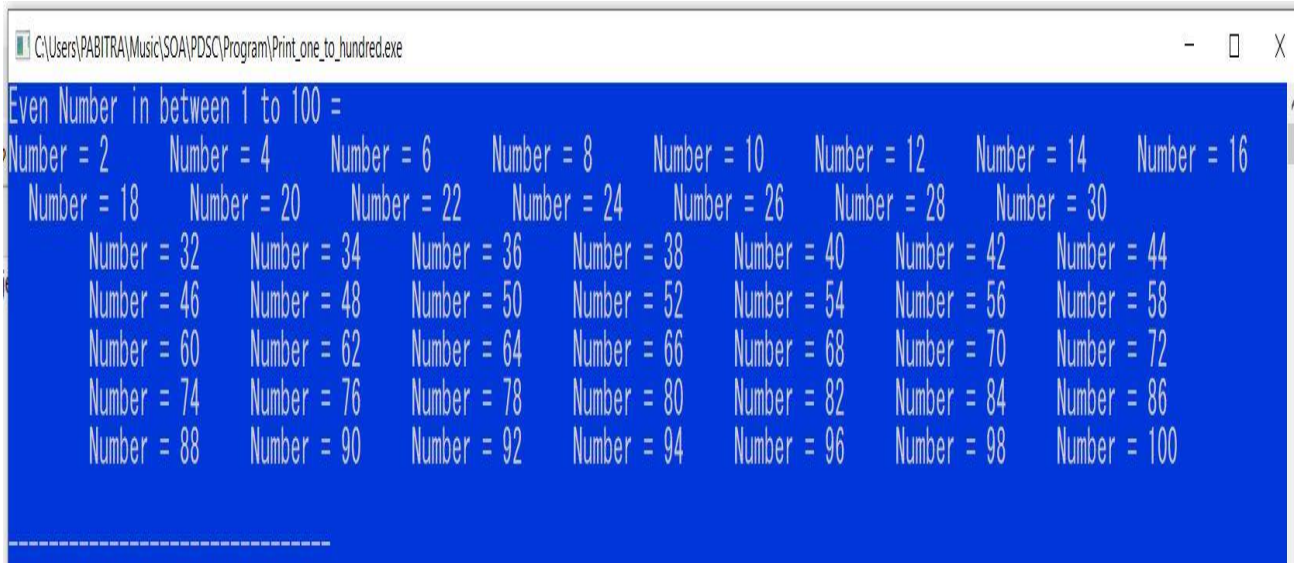
```
    }
}
```



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

Answer :

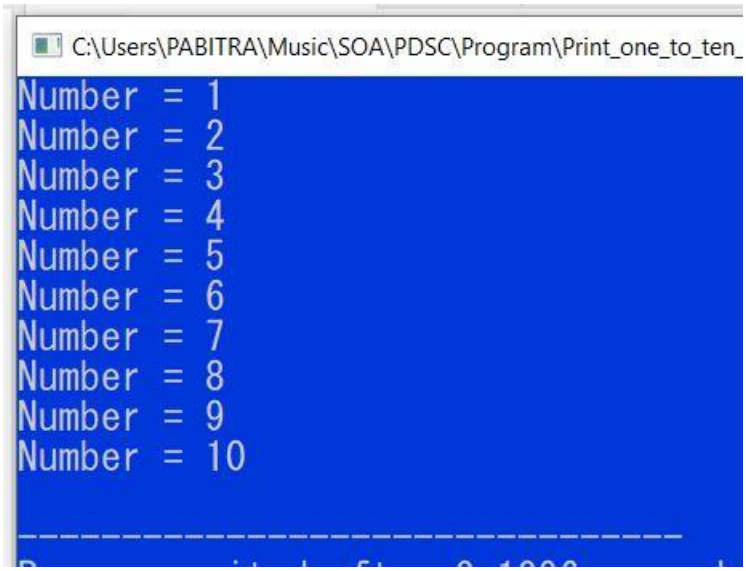
```
#include<stdio.h>
void main()
{
        int num=100,i,sum=0;
        printf("Even Number in between 1 to 100 = \n");
        for(i=1;i<=num;++i)
        {
   if( i%2 != 0 )
   continue;
   printf("Number = %d\t",i);
}
}
```



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 );
}
```

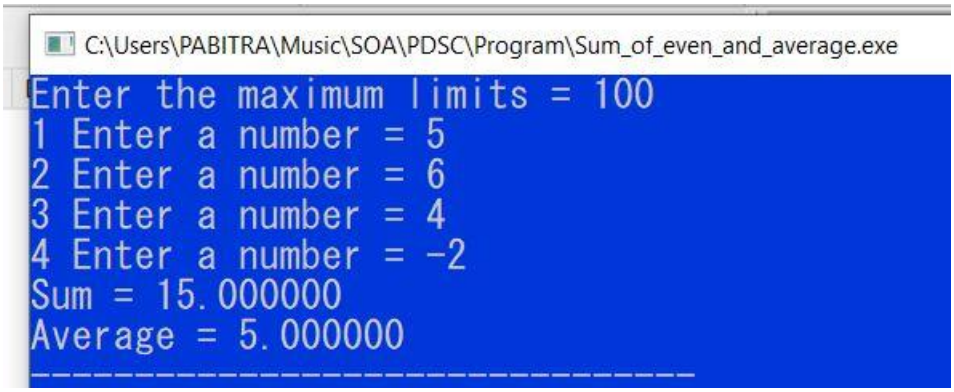


9. Program to calculate the sum and average of positive numbers, If the user enters a negative number, the sum and average are displayed. (Using goto) ?

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;
}
```



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;
}
```