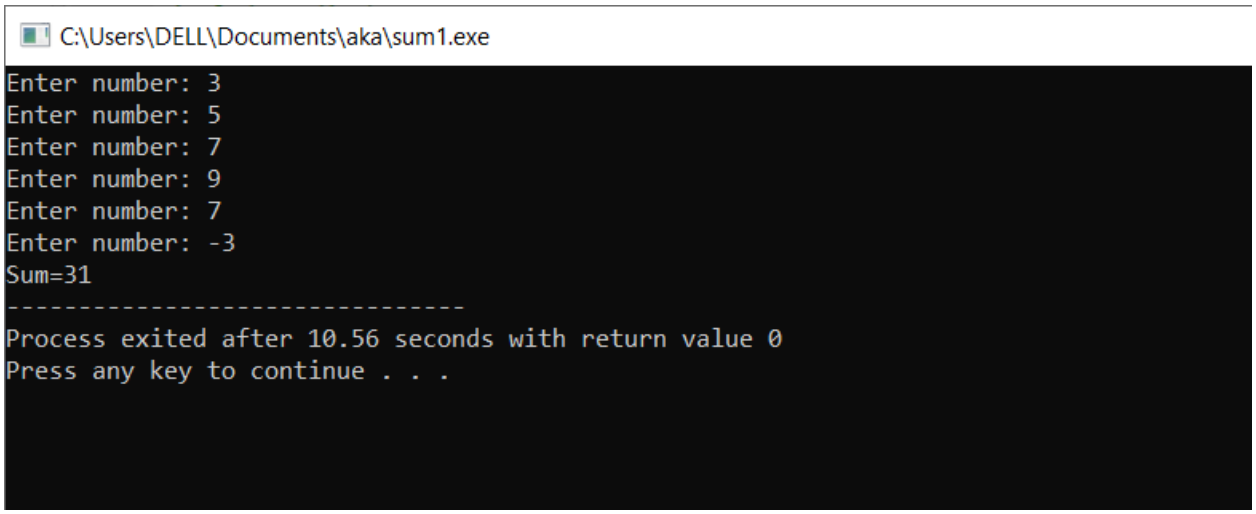
1. Calculate the sum of numbers (10 numbers max) & If the user enters a negative number, the loop terminates.

```
#include<stdio.h>

int main()

{

 int number, i, sum=0;

 for(i=1;i<=10;i++)

 {

  printf("Enter number: ");

  scanf("%d",&number);

  if( number<0 )

   break;

  sum += number;

 }

 printf("Sum=%d",sum);

 return 0;

}
```

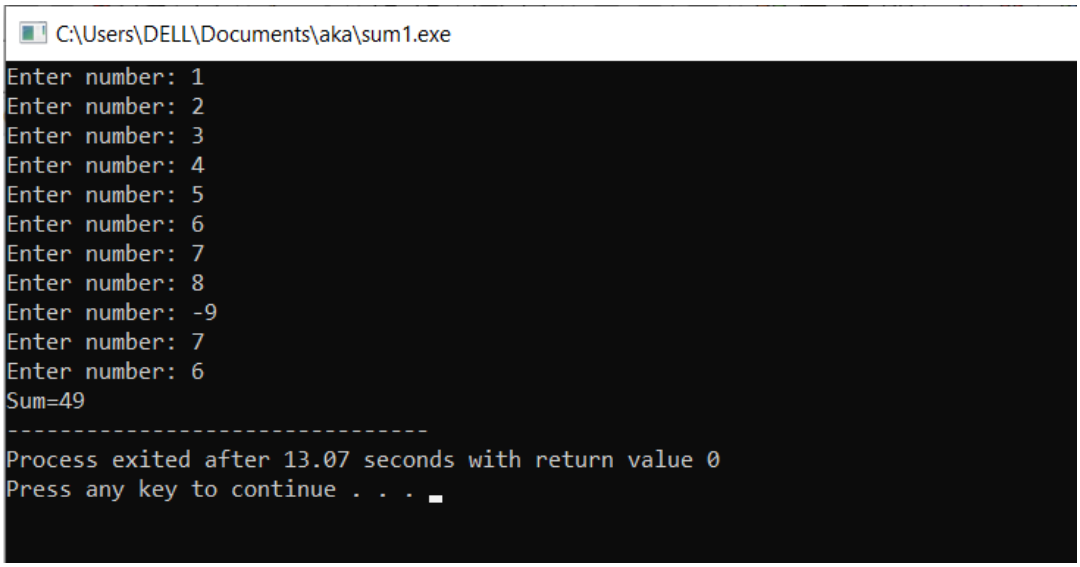
Output:



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

```
#include<stdio.h>

void main()

{

 int number, i, sum=0;

for(i=0;i<=10;i++)

 {

  printf("Enter number: ");

   scanf("%d",&number);

   if( number<0 )

    continue;

   sum += number;

 }

 printf("Sum=%d",sum)

}
```

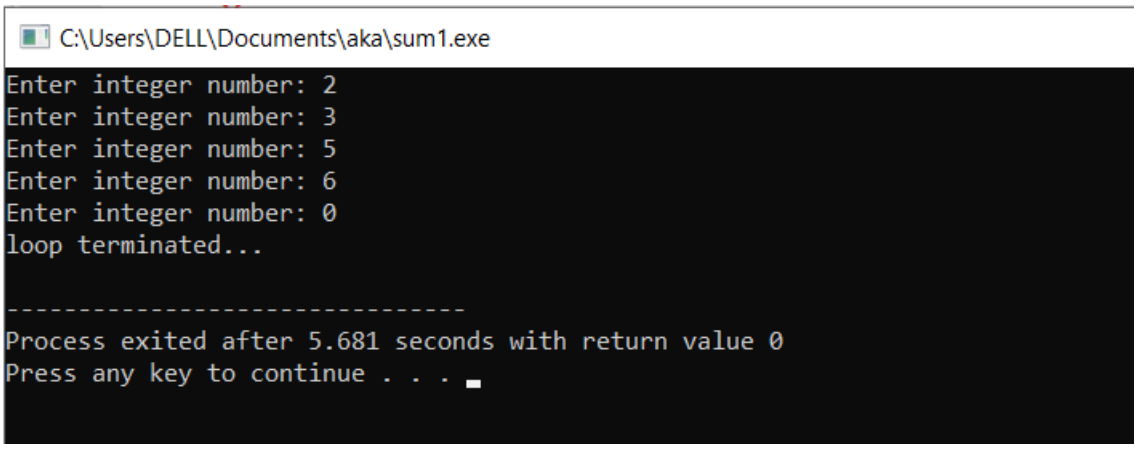
Output:



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

```
#include <stdio.h>

int main()

{

        int number;

        while(1)

        {

                printf("Enter integer number: ");

                scanf("%d",&number);

                if( number==0)

                {

                        printf("loop terminated...\n");

                        break;

                }

        }

        return 0;

}
```

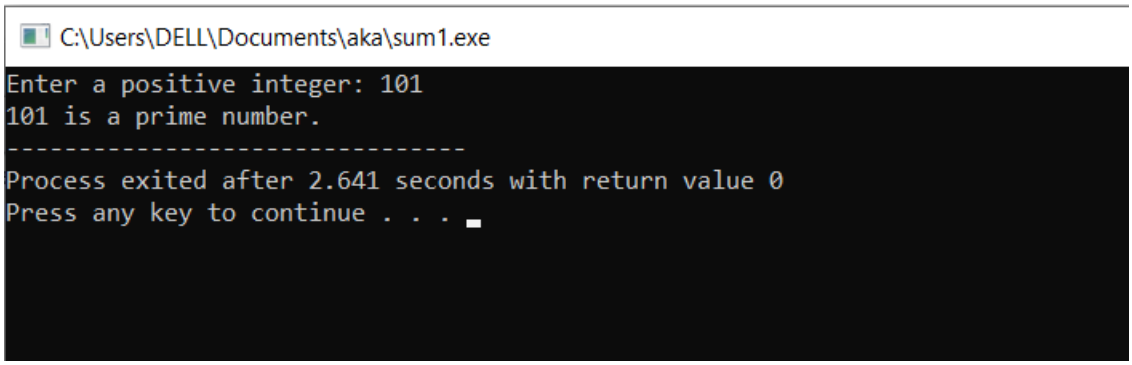
Output:



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

```
#include <stdio.h>
int main() {
   int n, i, flag = 0;
   printf("Enter a positive integer: ");
   scanf("%d", &n);
   for (i = 2; i <= n / 2; ++i) {
   if (n % i == 0) {
         flag = 1;
         break;
      }
   }
   if (n == 1) {
      printf("1 is neither prime nor composite.");
   }
   else {
      if (flag == 0)
         printf("%d is a prime number.", n);
      else
         printf("%d is not a prime number.", n);
   }
   return 0;
}
```

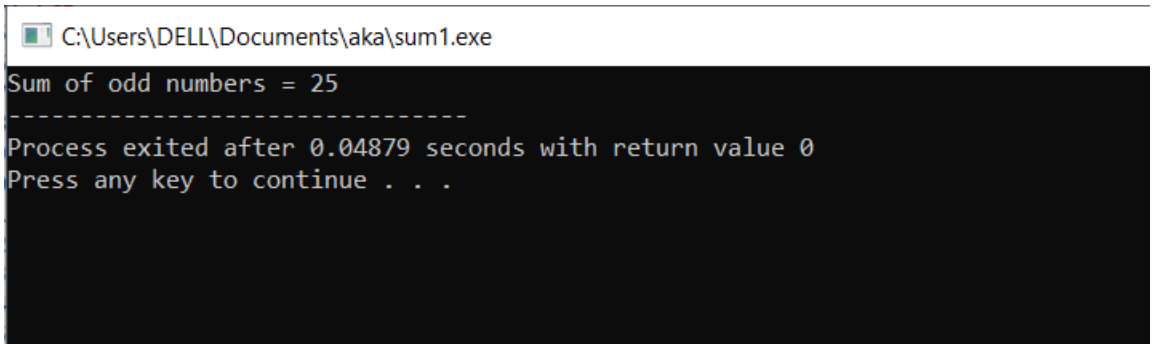
Output:



5. print sum of odd numbers between 0 and 10. (Using Continue)

```
#include <stdio.h>

int main()

{

   int  i,sum=0;

  for(i=1; i<=10; i+=2)

   {

      sum += i;

      continue;

   }

   printf("Sum of odd numbers = %d", sum);

 return 0;

}
```

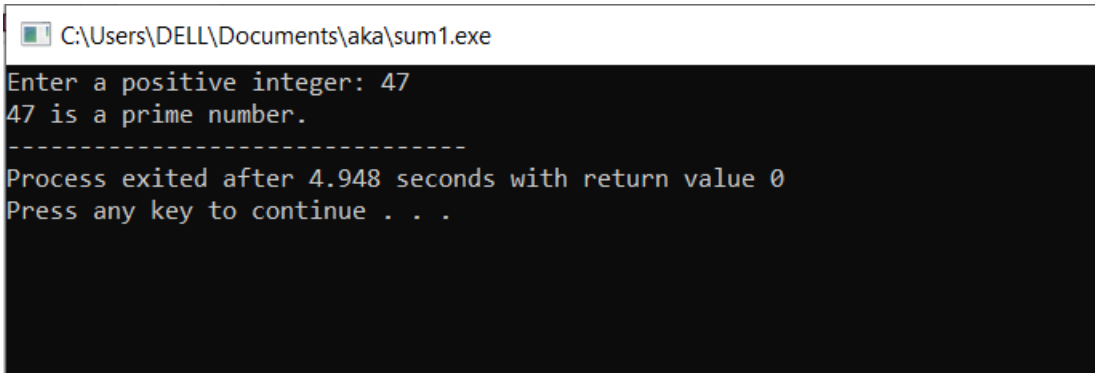
Output:



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

```
#include <stdio.h>
int main() {
   int n, i, flag = 0;
   printf("Enter a positive integer: ");
   scanf("%d", &n);
   for (i = 2; i <= n / 2; ++i) {
      if (n % i == 0) {
         flag = 1;
         continue;
      }
   }

   if (n == 1) {
      printf("1 is neither prime nor composite.");
   }
   else {
      if (flag == 0)
         printf("%d is a prime number.", n);
      else
         printf("%d is not a prime number.", n);
   }

   return 0;
}
```

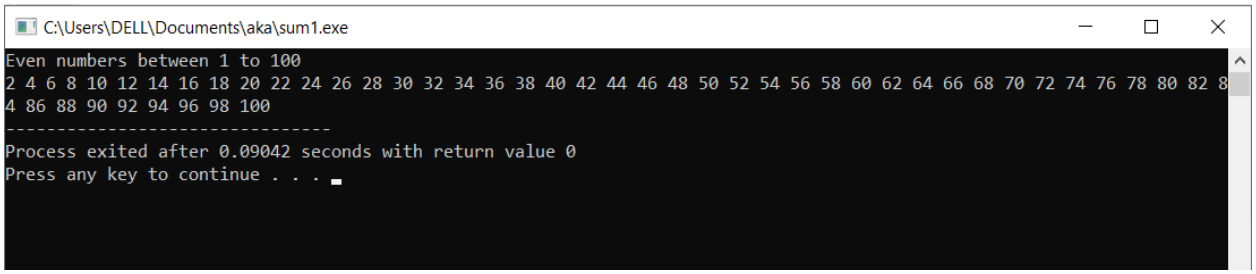
Output:



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

```
#include <stdio.h>

 int main() {

   int counter;

   printf("Even numbers between 1 to 100\n");

    for(counter = 1; counter <= 100; counter++) {

      if(counter%2 == 0) {

         printf("%d ", counter);

      continue;

       }

   }

  return 0;

}
```

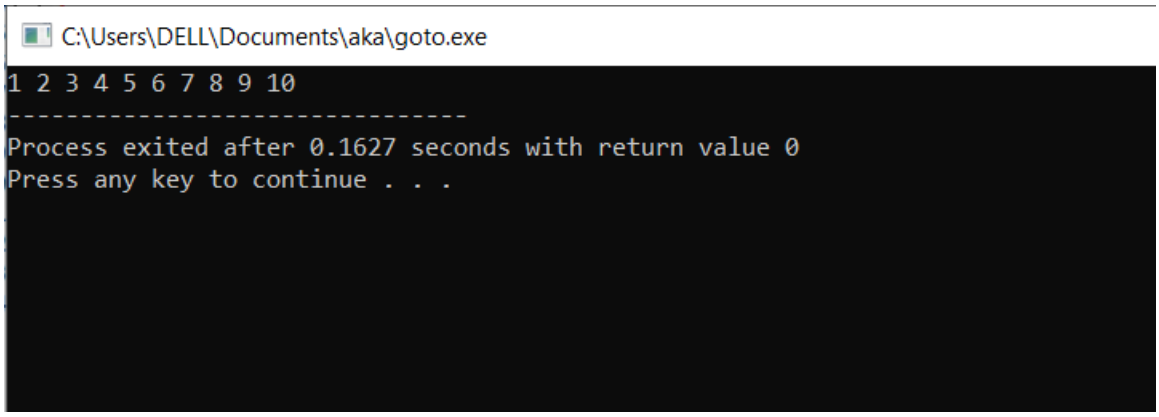
Output:



8. print numbers from 1 to 10 using goto statement. (Using goto)

```
#include <stdio.h>

int main()

{

        int counter=1;

        int n=10;

        START:

        printf("%d ",counter);

        counter++;

        if(counter<=10)

                goto START;

      return 0;

}
```

Output:

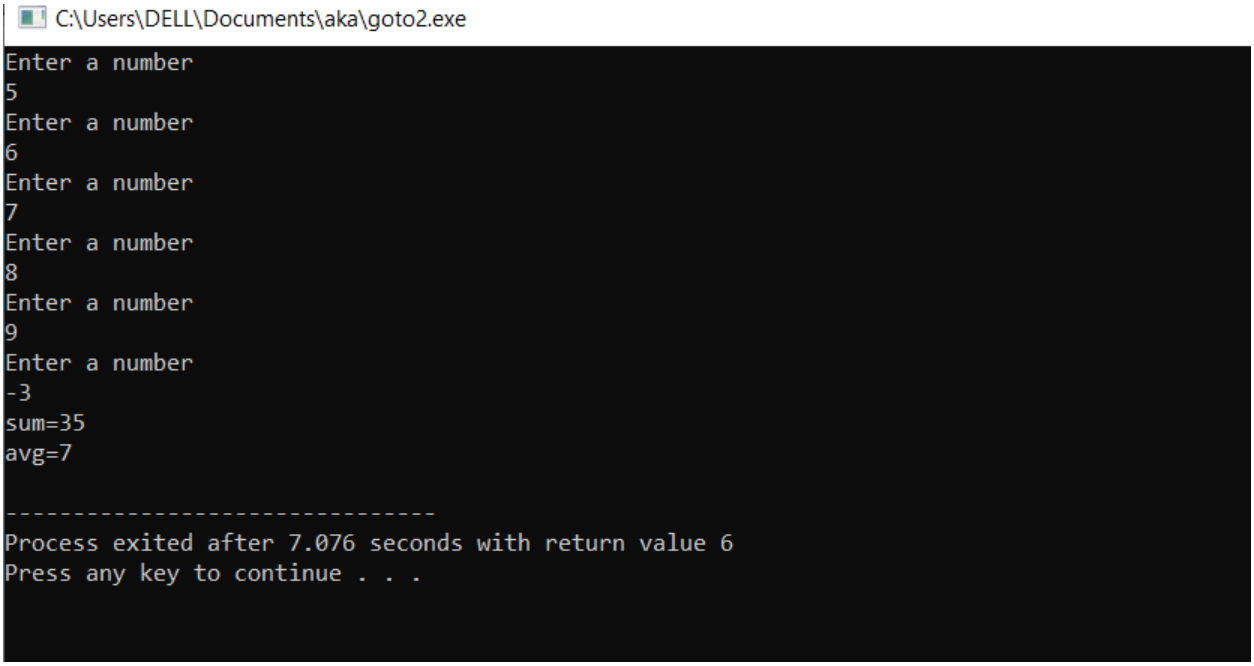


9. Program to calculate the sum and average of positive numbers, If the user enters a negative number, the sum and average are displayed. (Using goto)

```
#include <stdio.h>

void main()

{
```

```
    const int max=50;
    int i,number,avg,sum=0;
      for(i=1;i<=max;++i)
    {
    printf("Enter a number\n");
    scanf("%d", &number);
    if (number<0)
    {
       goto START;
    }
    sum+=number;
}
START:
            avg=sum/(i-1);
    printf("sum=%d\n", sum);
    printf("avg=%d\n", avg);
    return 0;
}
```

Output:



10. check if a number is even or not. (Using goto)

```
#include <stdio.h>

void main(){

   int num;

   printf("Enter a number\n");

   scanf("%d", &num);

   if (num % 2 == 0)

      goto even;

   else

      goto odd;

even:

   printf("%d is even\n", num);

   exit(0);

odd:
```

```
    printf("%d is odd\n", num);
}
```

Output: