Q1. calculate the sum of numbers (10 numbers max) & If the user enters a negative number, the loop terminates.

PROGRAM:-

```
        #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 = sum + number;
  }
printf("Sum=%d:",sum);
  return 0;
}
```

OUTPUT:-

```
Enter number: 4
Enter number: 6
Enter number: 8
Enter number: 7
Enter number: -6
Sum=25:
```

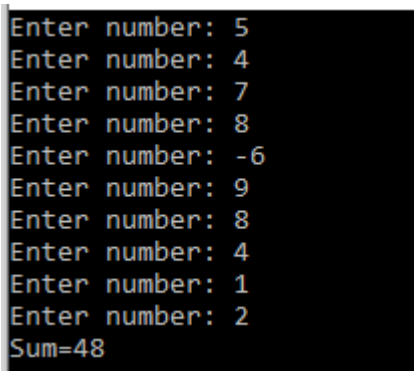
Q2. calculate the sum of numbers (10 numbers max) & If the user enters a negative number, it's not added to the result.

PROGRAM:-

```
#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 )
    continue;
   sum =sum+ number;
 }
printf("Sum=%d",sum);
 return 0;
}
```

OUTPUT:-



Q3. . take input from the user until he/she enters zero. (Using Break).

PROGRAM:-

```
#include<stdio.h>
int main()
{
int number, i;
 for(i=0;i <=1;i++)
 {
```

```
printf("Enter a number: ");
    i--;
scanf("%d",&number);
   if( number==0)
    break;
 }
printf("you entered 0");
 return 0;
}
```

OUTPUT:-

```
Enter a number: 4
Enter a number: 5
Enter a number: 6
Enter a number: 8
Enter a number: 0
you entered 0
```

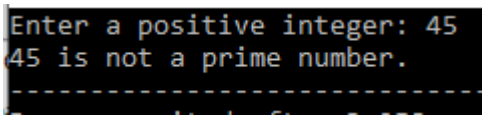
Q4. check whether the given number is prime or not.(Using Break).

PROGRAM:-

```
#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:-



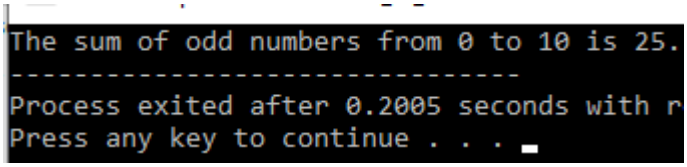
Q5. print sum of odd numbers between 0 and 10. (Using Continue) .

PROGRAM:-

```
  #include<stdio.H>
int main(){
int i,sum=0;
for(i=0;i<=10;i++)
{
if((i%2)==0)
    {
    continue;
```

```
   }
sum+=i;
}
printf("The sum of odd numbers from 0 to 10 is %d.",sum);
return 0;
}
```

OUTPUT:-



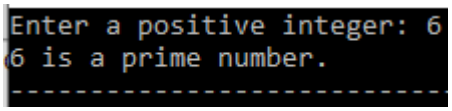
Q6. check whether the given number is prime or not.(Using Continue).

PROGRAM:-

```
#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:-



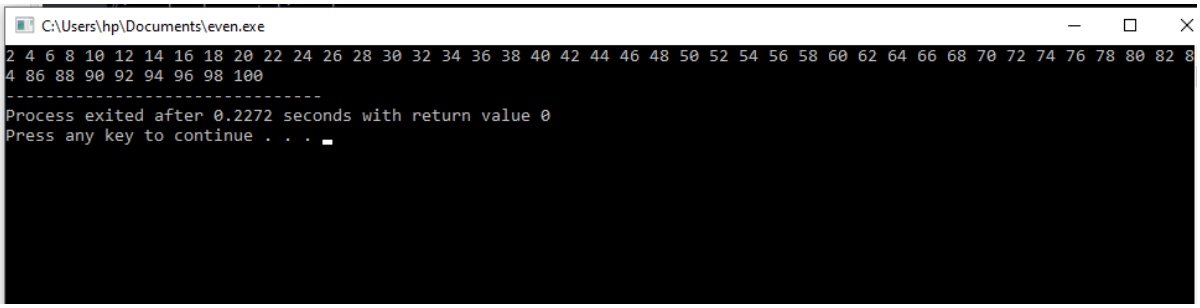
Q7. print all even numbers from 1 to 100. (Using Continue).

PROGRAM:-

```
#include<stdio.h>
int main(){
int i;
for(i=1;i<=100;i++)
{
if((i%2)!=0)
    {
    continue;
    }
printf("%d ",i);
}
return 0;
```

}

OUTPUT:-

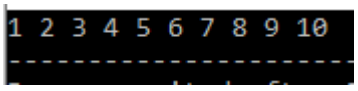


Q8. print numbers from 1 to 10 using goto statement. (Using goto).

PROGRAM:-

```
#include <stdio.h>

int main()

{


int i=1;

   lab:

          printf("%d ",i);

          i++;

          if(i<=10)

                    goto lab;

          return 0;

}
```

OUTPUT:-



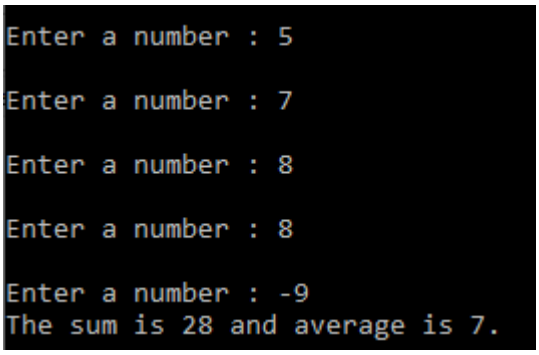
Q9. Program to calculate the sum and average of positive numbers, If the user enters a negative number, the sum and average are displayed. (Using goto).

PROGRAM:-

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

```
int main(){
int i=0,sum=0,num;
while(1)
{
printf("\nEnter a number : ");
scanf("%d",&num);
if(num>=0){
   sum+=num;
   i++;
   }
else{
   goto display;

}

}
display:
printf("The sum is %d and average is %d.",sum,sum/i);
return 0;
}
```

OUTPUT:-



Q10. check if a number is even or not. (Using goto).

PROGRAM:-

```
#include <stdio.h>

#include <stdlib.h>

int main()

{

int num;

printf("Enter a number: ");

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);

return 0;

}
```

OUTPUT:-