

Assignment 6

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 i,n,sum=0;

    printf("YOU HAVE TO ENTER 10 NUMBERS,ENTER NEGATIVE NUMBER FOR EXIT\n\n");

    for(i=1; i<=10; i++)
    {
        printf("Enter number %d : ",i);

        scanf("%d",&n);

        if(n<0)
            break;

        sum=sum+n;
    }

    if(i!=11)
    {
        printf("You have entered total %d numbers and last number is a negative number\n",i-1);

        printf("Sum of %d numbers is %d",i-1,sum);
    }

    else
    {
        printf("Sum of 10 numbers is %d",sum);
    }

    getch();

    return 0;
}
```

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>
```

```
int main()
```

```
{
```

```
    int i,n,sum=0;
```

```
    printf("YOU HAVE TO ENTER 10 NUMBERS,ENTER  
NEGATIVE NUMBER FOR EXIT\n\n");
```

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

```
    {
```

```
        printf("Enter number %d : ",i);
```

```
        scanf("%d",&n);
```

```
        if(n<0)
```

```
            continue;
```

```
        sum=sum+n;
```

```
    }
```

```
    printf("Sum of 10 numbers is %d \nNegative number  
excluded\n",sum);
```

```
    getch();
```

```
    return 0;
```

```
}
```

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

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

```
int main()
```

```
{
```

```
    int arr[100],i=0,n;
```

```
    while(n!=0)
```

```
    {
```

```
        printf("Enter number : \nENTER ZERO FOR STOP\n ");
```

```
        scanf("%d",&n);
```

```
        if(n!=0)
```

```
            arr[i]=n;
```

```
            i++;
```

```
    }
```

```
    printf("Numbers you have entered :\n");
```

```
    for(n=0; n<i-1; n++)
```

```
        printf("%d ",arr[n]);
```

```
    getch();
```

```
    return 0;
```

```
}
```

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

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

```
int main()
```

```
{
```

```
    int n,i;
```

```
    printf("Enter a number : ");
```

```
    scanf("%d",&n);
```

```
    for(i=2; i<n; i++)
```

```
    {
```

```
        if(n%i==0)
```

```
            break;
```

```
    }
```

```
    if(i==n)
```

```
        printf("%d is PRIME",n);
```

```
    else
```

```
        printf("%d is NOT Prime",n);
```

```
    getch();
```

```
    return 0;
```

```
}
```

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

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

```
int main()
```

```
{
```

```
    int n,i,sum=0;
```

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

```
    {
```

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

```
            continue;
```

```
        sum=sum+i;
```

```
    }
```

```
    printf("Sum of Odd numbers between 1 to 10 is  
%d",sum);
```

```
    getch();
```

```
    return 0;
```

```
}
```

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

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

```
int main()
```

```
{
```

```
    int i,n,c=0;
```

```
    printf("Enter number : ");
```

```
    scanf("%d",&n);
```

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

```
    {
```

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

```
            continue;
```

```
        c++;
```

```
    }
```

```
    if(c==2)
```

```
        printf("%d is PRIME",n);
```

```
    else
```

```
        printf("%d is NOT PRIME",n);
```

```
    getch();
```

```
    return 0;
```

```
}
```

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

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

```
int main()
```

```
{
```

```
    int i;
```

```
    for(i=2; i<=100; i++)
```

```
    {
```

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

```
            continue;
```

```
        printf("%d ",i);
```

```
    }
```

```
}
```

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

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

```
int main()
```

```
{
```

```
    int i=1;
```

```
    l: printf("%d ",i++);
```

```
    if(i<=10)
```

```
        goto l;
```

```
    getch();
```

```
    return 0;
```

```
}
```


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>

int main()
{
    int n,i=1,sum=0,avg;

l1: printf("Enter number : ");
    scanf("%d",&n);
    if(n<0)
        goto l2;
    sum=sum+n;
    avg=sum/i;
    i++;
    printf("Sum = %d  Average = %d \n",sum,avg);
    goto l1;
l2: printf("SUM = %d  AVERAGE = %d ",sum,avg);
    getch();
    return 0;
}
```

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

```
#include<stdio.h>

int main()
{
    int n;
    printf("Enter a number : ");
    scanf("%d",&n);
    if(n%2==0)
        goto even;
    else
        goto odd;
    even: printf("%d is Even number",n);
    exit(0);
    odd: printf("%d is odd number",n);
    getch();
    return 0;
}
```