

ASSIGNMENT-6

1. 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 i, num, sum=0;
    for(i=1; i<=10; i++)
    {
        printf("Enter A Number: ");
        scanf("%d", &num);
        if(num < 0)
            break;
        sum = sum + num;
    }

    printf("The Sum Is %d", sum);

    return 0;
}
```

OUTPUT:

```
Enter A Number: 5
Enter A Number: 10
Enter A Number: 15
Enter A Number: 20
Enter A Number: 25
Enter A Number: 60
```

Enter A Number: 70

Enter A Number: 80

Enter A Number: 35

Enter A Number: -5

The Sum Is 320

2. 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 i, num, sum=0;
    for(i=1; i<=10; i++)
    {
        printf("Enter A Number: ");
        scanf("%d", &num);
        if(num < 0){
            continue;}
        sum = sum + num;
    }

    printf("The Sum Is %d", sum);

    return 0;
}
```

OUTPUT:

Enter A Number: 5

Enter A Number: 10

Enter A Number: 15

Enter A Number: 20

Enter A Number: -5

Enter A Number: 44

Enter A Number: 55

Enter A Number: -10

Enter A Number: 28

Enter A Number: 95

The Sum Is 272

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

PROGRAM:

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

```
int main()
```

```
{
```

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

```
    for(i=1; i>0; i++)
```

```
    {
```

```
        printf("Enter A Number: ");
```

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

```
        if(num == 0)
```

```
            break;
```

```
    }
```

```
    return 0; }
```

OUTPUT:

Enter A Number: 5

Enter A Number: 10

Enter A Number: 15

Enter A Number: 20

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

PROGRAM:

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

```
int main()
```

```
{
```

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

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

```
    {
```

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

```
        continue;
```

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

```
    }
```

```
    printf("The sum of odd numbers are %d", sum);
```

```
    return 0;
```

```
}
```

OUTPUT:

The sum of odd numbers are 25

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

PROGRAM:

```
#include<stdio.h>

int main()
{
    int i;
    printf("The Even Numbers From 1-100 Are:\n");
    for(i=1; i<=100; i++)
    {
        if(i % 2 != 0)
            continue;
        printf("%d \n", i);
    }

    return 0;
}
```

OUTPUT:

The Even Numbers From 1-100 Are:

2
4
6
8
10
12
14
16
18

20

22

24

26

28

30

32

34

36

38

40

42

44

46

48

50

52

54

56

58

60

62

64

66

68

70

72

74
76
78
80
82
84
86
88
90
92
94
96
98
100

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

PROGRAM:

```
#include <stdio.h>

int main()
{
    int n, i, c=0;
    printf("Enter a Number: ");
    scanf("%d",&n);

    for(i=2; i<n; i++)
    {
        if(n % i == 0)
```

```

    {
        c = c + 1;
        break;
    }

}

if(c == 0)
printf("%d Is A Prime Number", n);
else
printf("%d Is Not A Prime Number", n);

return 0;
}

```

OUTPUT:

Enter a Number: 5
Is A Prime Number

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

PROGRAM:

```

#include <stdio.h>

int main()
{
    int n, i, c=0;
    printf("Enter a Number: ");
    scanf("%d",&n);

```



```

for(i=1; i<=n; i++)
{
    if(n % i != 0)
        continue;
    c = c + 1;
}

if(c == 2)
    printf("%d Is A Prime Number", n);
else
    printf("%d Is Not A Prime Number", n);

return 0;
}

```

OUTPUT:

Enter a Number: 4

4 Is Not A Prime Number

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

PROGRAM:

```

#include <stdio.h>

int main()
{
    int n=1;
L1:
    printf("%d\n", n);
    n++;
}

```

```
if(n <= 10)
goto L1;
return 0;
}
```

OUTPUT:

```
1
2
3
4
5
6
7
8
9
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).

PROGRAM:

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

```
int main(){
int c=0,n,sum=0;
float avg=0;
```

```
li:
```

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

```
scanf("%d",&n);  
if(n>0){  
    sum += n;  
    c +=1;  
}  
if(n>0){  
    goto li;  
}  
  
printf("Sum of given number = %d \n",sum);  
avg = sum/c;  
printf("Average of the given number = %f",avg);  
  
return 0;  
}
```

OUTPUT:

Enter a number :: 5

Enter a number :: 6

Enter a number :: 3

Enter a number :: 8

Enter a number :: 9

Enter a number :: 4

Enter a number :: -5

Sum of given number = 35

Average of the given number = 5.000000

10. 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\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:

Enter a number

5

5 is odd