**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

1. 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

1. 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

1. 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

1. 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

1. 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

1. Is Not A Prime Number
2. 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

1. 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

1. 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