1)

#include <stdio.h>

int main() {

int i;

double number, sum = 0.0;

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

printf("Enter a n%d: ", i);

scanf("%lf", &number);

// if the user enters a negative number, break the loop

if (number < 0.0) {

break;

}

sum += number; // sum = sum + number;

}

printf("Sum = %.2lf", sum);

return 0;

}

Output:

Enter a n1: 2.4

Enter a n2: 4.5

Enter a n3: 3.4

Enter a n4: -3

Sum = 10.30

2)

#include<stdio.h>

int main()

{

int number, i, sum=0;

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

{

printf("Enter number: ");

scanf("%d",&number);

if( number<0 ) //-ve numbers are skipped

continue;

sum += number; //sum = sum + number

}

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

return 0;

}

Output:

Enter number: 50

Enter number: 40

Enter number: 20

Enter number: 60

Enter number: 30

Enter number: 40

Enter number: 20

Enter number: 10

Enter number: 40

Enter number: 50

Enter number: 60

Sum=420

3)

#include <stdio.h>

int main ()

{

int a;

while (1)

{

printf("enter the number:");

scanf("%d", &a);

if ( a == 0 )

break;

}

return 0;

}

Output:

enter the number:5

enter the number:4

enter the number:3

enter the number:2

enter the number:1

enter the number:0

4)

#include <stdio.h>

int main() {

int num = 33, flag = 0;

for(int i=2 ; i < num/2 ; i++) {

if(num%i == 0) {

printf("%d is not a prime number", num);

flag = 1;

break;

}

}

if(flag == 0) {

printf("%d is a prime number", num);

}

}

Output:

33 is not a prime number

5.

#include <stdio.h>

void main()

{

int i,n,sum=0;

printf("Input number of terms : ");

scanf("%d",&n);

printf("\nThe odd numbers are :");

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

{

printf("%d ",2\*i-1);

sum+=2\*i-1;

}

printf("\nThe Sum of odd Natural Number upto %d terms : %d \n",n,sum);

}

Output:

Input number of terms : 10

The odd numbers are :1 3 5 7 9 11 13 15 17 19

The Sum of odd Natural Number upto 10 terms : 100

6)

#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) {

// condition for non-prime

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;

Enter a positive integer: 20

is not a prime number.

7)

#include <stdio.h>

int main()

{

/\* Variable declaration \*/

int num;

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

for(num=1; num<=100; num++)

{

if(num % 2 == 1)

continue;

printf("%d ", num);

}

return 0;

}

Output:

Even numbers between 1 to 100:

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

8)

#include <stdio.h>

int main()

{

int i=1;

int n;

printf("Enter the value of n: ");

scanf("%d",&n);

START:

printf("%d ",i);

i++;

if(i<=n)

goto START;

return 0;

}

Output:

Enter the value of n: 10

1 2 3 4 5 6 7 8 9 10

9)

#include <stdio.h>

int main()

{

const int maxInput = 100;

int i;

double number, average, sum = 0.0;

for (i = 1; i <= maxInput; ++i) {

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

scanf("%lf", &number);

// go to jump if the user enters a negative number

if (number < 0.0)

{

goto jump;

}

sum += number;

}

jump:

average = sum / (i - 1);

printf("Sum = %.2f\n", sum);

printf("Average = %.2f", average);

return 0;

}

Output;

1. Enter a number: 20

2. Enter a number: 10

3. Enter a number: 50

4. Enter a number: 60

5. Enter a number: -20

Sum = 140.00

Average = 35.00

10)

#include <stdio.h>

#include <stdlib.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:

Enter a number

8

is even