```
1)
#include (stdio.h)
int main() {
   int i;
   double number, sum = 0.0;
   for (i = 1; i \le 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 nl: 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 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 \le 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;
```

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

```
}
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
12345678910
9)
#include (stdio.h)
int main()
   const int maxInput = 100;
   int i;
   double number, average, sum = 0.0;
   for (i = 1; i \leftarrow 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");
```