```
#include <stdio.h>
 1
 2
 3 - int main() {
4
         int num, i;
 5
         unsigned long long factorial = 1;
 6
 7
         printf("Enter an integer: ");
 8
          scanf("%d", &num);
9
10
         if (num < 0)
11
              printf("Factorial is not defined for negative numbers.\n");
12 -
              for(i = 1; i <= num; ++i)
13
                 factorial *= i;
14
15
              printf("Factorial of %d = %llu\n", num, factorial);
16
17
18
19
         return 0;
20
```

```
Enter an integer: 4
Factorial of 4 = 24
------
Process exited after 2.548 seconds with return value 0
Press any key to continue . . .
```

```
#include<stdio.h>
2
     int main()
3 - {
4
         int n.i:
5
         int first=0,second=1,next;
6
7
         printf("enter the number of terms:");
8
         scanf("%d",&n);
9
         printf("fibonacci series:");
10
11
         for(i=0;i<n;i++)
12
13 -
14
             if(i<=1)
15
             next=i;
             else
16
17 -
                 next= second + first;
18
                 first = second;
19
20
                 second = next;
21
22
             printf("%d", next);
23
24
25
         return 0;
enter the number of terms:4
fibonacci series:0112
```

```
fibonacci series:0112
------
Process exited after 2.828 seconds with return value 0
Press any key to continue . . .
```

```
1
     #include<stdio.h>
2
3 = int fibonacci(int n) {
4
5
         if (n == 0)
6
              return 0;
7
         else if (n == 1)
8
              return 1;
9
         else
              return fibonacci(n - 1) + fibonacci(n - 2);
10
11
12
13 ☐ int main() {
         int terms;
14
15
         printf("Enter the number of terms: ");
16
17
         scanf("%d", &terms);
18
19
         printf("Fibonacci Series:\n");
20 -
         for (int i = 0; i < terms; i++) {
             printf("%d ", fibonacci(i));
21
22
23
24
         printf("\n");
25
         return 0;
26 L }
```

```
Enter the number of terms: 7
Fibonacci Series:
0 1 1 2 3 5 8

------
Process exited after 5.597 seconds with return value 0
Press any key to continue . . .
```

```
#include <stdio.h>
 2
3  unsigned long long factorial(int n) {
 4
         if (n == 0 || n == 1)
 5
             return 1;
 6
         else
 7
             return n * factorial(n - 1);
 8
10 ☐ int main() {
11
         int num;
12
13
         printf("Enter a positive integer: ");
14
         scanf("%d", &num);
15
16
         if (num < 0)
17
             printf("Factorial is not defined for negative numbers.\n");
18
         else
             printf("Factorial of %d = %llu\n", num, factorial(num));
19
20
21
         return 0;
22 L }
```

```
Enter a positive integer: 6
Factorial of 6 = 720
------
Process exited after 9.695 seconds with return value 0
Press any key to continue . . .
```

```
1
     #include <stdio.h>
 2
3 = int main() {
         int a[100], n, key, found = 0;
4
5
 6
         printf("Enter number of elements: ");
7
         scanf("%d", &n);
8
         printf("Enter %d elements: ", n);
9
10
         for (int i = 0; i < n; i++)
             scanf("%d", &a[i]);
11
12
13
         printf("Enter number to search: ");
         scanf("%d", &key);
14
15
16 -
         for (int i = 0; i < n; i++) {
17
              if (a[i] == key) {
                  printf("Element found at position %d\n", i + 1);
18
19
                  found = 1;
20
                  break;
21
22
23
         if (!found)
24
25
         printf("Element not found.\n");
26
27
         return 0;
28
```

```
#include <stdio.h>
1
2
3 - int main() [
4
        int a[100], n, key, found = 0;
5
        printf("Enter number of elements: ");
6
7
        scanf("%d", &n);
8
        printf("Enter %d elements: ", n);
9
10
        for (int i = 0; i < n; i++)
11
            scanf("%d", &a[i]);
12
13
        printf("Enter number to search: ");
14
        scanf("%d", &key);
15
16 -
        for (int i = 0; i < n; i++) {
17 -
            if (a[i] == key) {
                printf("Element found at position %d\n", i + 1);
18
19
                found = 1;
20
                break;
21
22
23
        if (!found)
24
        printf("Element not found.\n");
25
26
27
        return 0;
28
Enter number of elements: 7
Enter 7 elements: 1 3 5 6 7 4
6
Enter number to search: 5
Element found at position 3
Process exited after 24.99 seconds with return value 0
Press any key to continue . . .
```