

```
1 #include <stdio.h>
2 void main()
3 {
4     int num;
5     printf("bhargav 192210266");
6     printf("Input a number :");
7     scanf("%d", &num);
8     if (num >= 0)
9         printf("%d is a positive number \n", num);
10    else
11        printf("%d is a negative number \n", num);
12 }
```

```
/tmp/XanKDGKkoV.o
bhargav 192210266Input a number :12
12 is a positive number
```



```
1  #include<stdio.h>
2
3- int main() {
4    char ch;
5    printf("bhargav 192210266");
6    printf("\nEnter The Character : ");
7    scanf("%c", &ch);
8
9    if (ch >= 'A' && ch <= 'Z')
10       printf("Character is Upper Case Letters");
11    else
12       printf("Character is Not Upper Case Letters");
13
14    return (0);
15 }
```

/tmp/XanKDGGkoV.o

bhargav 192210266

Enter The Character : ay

Character is Not Upper Case Letters



```
1 #include <stdio.h>
2 int main() {
3     char c;
4     printf("bhargav 192210266");
5     printf("Enter a character: ");
6     scanf("%c", &c);
7
8     if ((c >= 'a' && c <= 'z') || (c >= 'A' && c <= 'Z'))
9         printf("%c is an alphabet.", c);
10    else
11        printf("%c is not an alphabet.", c);
12
13    return 0;
14 }
```

/tmp/XanKDgKkoV.o

bhargav 192210266Enter a character: hj
h is an alphabet.



```
C:\Users\jaswa\OneDrive\Doc x + v
bhargav 192210266Enter a number:
```

C:\Users\jaswa\OneDrive\Documents\day1.c - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

Project Classes Debug

```
1 #include <math.h>
2 #include <stdio.h>
3 int main()
4 {
5     int n, i, flag = 1;
6     printf("bhargav 192210266");
7     scanf("%d", &n);
8     for (i = 2; i <= sqrt(n); i++) {
9         if (n % i == 0) {
10             flag = 0;
11             break;
12         }
13     }
14     if (n <= 1)
15         flag = 0;
16     if (flag == 1) {
17         printf("%d is a prime number", n);
18     }
19     else {
20         printf("%d is not a prime number", n);
21     }
22     return 0;
23 }
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\jaswa\OneDrive\Documents\
- Output Size: 133.0390425 KiB
- Compilation Time: 0.59s

Line 6 Col 31 Sel 0 Lines 31 Length: 519 Insert Done



C:\Users\jaswa\OneDrive\Documents\day1.18c.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

Project Classes Debug day1.c day1.4c.cpp day1.6c.cpp day1.8c.cpp day1.10c.cpp day1.12c.cpp day1.14c.cpp day1.18c.cpp

```
1 #include<stdio.h>
2 long int multiplyNumbers(int n);
3 int main()
4 {
5     int n;
6     printf("bhargav 192210266");
7     public int __cdecl printf(const char * __restrict __format, ...)
8     printf("Factorial of %d = %ld", n, multiplyNumbers(n));
9     return 0;
10 }
11
12
13 long int multiplyNumbers(int n) {
14     if (n>=1)
15         return n*multiplyNumbers(n-1);
16     else
17         return 1;
18 }
19
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0

- Warnings: 0

- Output Filename: C:\Users\jaswa\OneDrive\Documents\day1.18c.exe

- Output Size: 129.1396484375 KiB

- Compilation Time: 0.64s

line 6 Col 30 Sel 0 Exec 10 Length 284 Exec Process 0.001 seconds

C:\Users\jaswa\OneDrive\Documents\day1.18c.cpp - [Executing] - Dev-C++ 5.11

bhargav 192210266Enter a positive integer: 7

Factorial of 7 = 5040

Process exited after 3.217 seconds with return value 0

Press any key to continue . . .



File Edit Search View Project Execute Tools AStyle Window Help

Project Classes Debug

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int x, y;
6     printf("bhargav 192218264");
7     public int __cdecl printf(const char * __restrict __format, ...)
8     scanf("%d", &y);
9     printf("Enter Value of y ");
10    scanf("%d", &y);
11
12    int temp = x;
13    x = y;
14    y = temp;
15
16    printf("\nAfter Swapping: x = %d, y = %d", x, y);
17    return 0;
18 }
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\jaswa\OneDrive\Documents\day1.10c.exe
- Output Size: 128.6015625 KiB
- Compilation Time: 0.69s

line 6 Col 30 Sel 0 Line: 18 Length: 329 Insert Done parsing in 0.032 seconds



C:\Users\jaswa\OneDrive\Documents\day1.14c.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

(glibals)

Project Classes Debug day1.c day1.4c.cpp day1.6c.cpp day1.8c.cpp day1.10c.cpp day1.12c.cpp day1.14c.cpp (*) day1.18c.cpp

```
1 #include <stdio.h>
2 int main() {
3
4     int i, n;
5
6     int t1 = 0, t2 = 1;
7
8     int nextTerm = t1 + t2;
9
10    printf("Enter the number of terms: ");
11    scanf("%d", &n);
12
13    printf("Fibonacci Series: %d, %d, ", t1, t2);
14
15    for (i = 3; i <= n; ++i)
16    {
17        printf("bhargav 1922102661");
18        public int __cdecl printf (const char * __restrict __format, ...)
19        t2 = nextTerm;
20        nextTerm = t1 + t2;
21    }
22
23    return 0;
24 }
25
26
```

Compiler Resources Compile Log Debug Find Results Close

About Compilation

Shorten compiler paths

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\jaswa\OneDrive\Documents\day1.14c.exe
- Output Size: 120.6015625 KiB
- Compilation Time: 0.64s

Done parsing in 0.047 seconds

C:\Users\jaswa\OneDrive\Doc x + v -

```
Enter the number of terms: 5
Fibonacci Series: 0, 1, bhargav 1922102661, bhargav 1922102662, bhargav 1922102663,
-----
Process exited after 5.239 seconds with return value 0
Press any key to continue . . .
```

1:08 AM



C:\Users\jaswa\OneDrive\Documents\day1.8c.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

Project Classes Debug

```
1 #include <stdio.h>
2
3 int recSum(int n)
4 {
5     if (n <= 1)
6         return n;
7
8     return n + recSum(n - 1);
9 }
10
11 int main()
12 {
13     int n = 10;
14     printf("bhargav 192210266");
15     public int __cdecl printf (const char * __restrict __format, ...)
16 }
17
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\jaswa\OneDrive\Documents\day1.8c.exe
- Output Size: 128.4599609375 KiB
- Compilation Time: 0.55s

Shorten compiler paths

Col: 30 Sel: 0 Lines: 17 Length: 245 Insert Done parsing in 0.031 seconds

C:\Users\jaswa\OneDrive\Doc x + -

```
bhargav 192210266Sum = 55
-----
Process exited after 0.02172 seconds with return value 0
Press any key to continue . . .
```

1:05 AM 3/29/2023


```

C:\Users\jaswa\OneDrive\Doc  X  +  -  X
bhargav 192210266Enter the number: 23
Strong Numbers are: 1
2
-----
Process exited after 3.581 seconds with return value 0
Press any key to continue . . . |

```

```
File Edit Search View Project Execute Tools AStyle Window Help
(globale)
Project Classes Debug day1.c day1.4c.cpp day1.6c.cpp day1.8c.cpp day1.10c.cpp day1.12c.cpp [*] day1.14c.cpp [*] day1.16c
1 #include <stdio.h>
2
3 int main()
4 {
5     int n, i;
6     printf("bhargav 192210266");
7     public int __cdecl printf (const char * __restrict __format, ...)
8     scanf("%d", &n);
9     printf("Multiplication table of %d:\n", n);
10    printf("-----\n");
11    for (i = 1; i <= 10; i++)
12        printf("%d x %d = %d\n", n, i, n * i);
13    return 0;
14 }
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\jaswa\OneDrive\Documents\day1.12c.exe
- Output Size: 128.7705078125 KiB
- Compilation Time: 0.70s

Shorten compiler paths

Tab 0 Lines: 14 Length: 334 Insert Done parsing in 0.031 seconds

```
C:\Users\jaswa\OneDrive\Doc x + -
bhargav 192210266Enter a number: 2
Multiplication table of 2:
-----
2 x 1 = 2
2 x 2 = 4
2 x 3 = 6
2 x 4 = 8
2 x 5 = 10
2 x 6 = 12
2 x 7 = 14
2 x 8 = 16
2 x 9 = 18
2 x 10 = 20
-----
Process exited after 3.858 seconds with return value 0
Press any key to continue . . .
```

1:08 AM 3/29/2023

```
C:\Users\jaswa\OneDrive\Documents\day1.6c.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug day1.c day1.4c.cpp day1.6c.cpp [*] day1.8c.cpp [*] day1.10c.cpp [*] day1.12c.cpp [*] day1.14c.cpp [*]
1 #include <stdio.h>
2 #include <math.h>
3 int main()
4 {
5     int low, high;
6     printf("bhargav 192210266");
7     public int __cdecl printf(const char * __restrict __format, ...)
8     scanf("%d", &high);
9     printf("Enter the ending value of the range: ");
10    scanf("%d", &high);
11    printf("All Armstrong numbers between %d and %d are:\n", low, high);
12    for(int n=low;n<high;n++)
13    {
14        int num = n, res, sum=0;
15        if(n<=9)
16        {
17            printf("%d ", n);
18        }
19        else
20        {
21            int digit = (int) log10(num) + 1;
22            while(num > 0)
23            {
24                res = num % 10;
25                sum = sum + pow(res, digit);
26                num = num / 10;
27            }
28            if (sum == n)
29            {
30                printf("%d ", n);
31            }
32    }
33 }
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\jaswa\OneDrive\Documents\day1.6c.exe
- Output Size: 151.8994140625 KiB
- Compilation Time: 0.47s

Line: 6 Col: 30 Sel: 0 Lines: 37 Length: 884 Insert Done parsing in 0.047 seconds

```
C:\Users\jaswa\OneDrive\Doc x + -
bhargav 192210266Enter the starting value of the range:34
Enter the ending value of the range: 4
All Armstrong numbers between 34 and 4 are:

-----
Process exited after 5.834 seconds with return value 0
Press any key to continue . . .
```

```

C:\Users\jaswa\OneDrive\Doc X + v
bhargav 192210266Enter the number of rows: 8
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31 32 33 34 35 36

-----
Process exited after 4.301 seconds with return value 0
Press any key to continue . . .

```