

C:\Users\Admin\OneDrive\Documents\Untitled1.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug Untitled1.cpp

```
1 #include <stdio.h>
2
3 int main() {
4     int n, i, flag = 0;
5     printf("varshith 192224164");
6     public int __cdecl printf (const char * __restrict__ _Format, ...);
7     _summing up many
8
9     // Check if the number is divisible by any number other than 1 and itself
10    for(i=2; i<=n/2; ++i) {
11        if(n%i == 0) {
12            flag = 1;
13            break;
14        }
15    }
16
17    if(n == 1) {
18        printf("1 is neither prime nor composite.\n");
19    }
20    else {
21        if(flag == 0)
22            printf("%d is a prime number.\n", n);
23        else
24            printf("%d is not a prime number.\n", n);
25    }
26
27    return 0;
28 }
```

varshith 192224164Enter a positive integer: 5
5 is a prime number.

Process exited after 71.21 seconds with return value
0
Press any key to continue . . .

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Admin\OneDrive\Documents\Untitled1.exe
- Output Size: 128.7705078125 Kib
- Compilation Time: 0.56s

Line: 5 Col: 31 Sel: 0 Lines: 28 Length: 621 Insert Done parsing in 0.047 seconds

86°F Mostly clear 9:24 PM 28-Mar-23

C:\Users\Admin\OneDrive\Documents\Untitled2.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug [] Untitled1.cpp Untitled2.cpp

```
1 #include <stdio.h>
2 #include <math.h>
3
4 int main() {
5     int number, originalNumber, remainder, result = 0, n = 0;
6     printf("varshith 192224164");
7     public int _cdecl printf (const char * __restrict__ _format, ...)
8     scanf("%d", &number);
9
10    originalNumber = number;
11
12    // count the number of digits
13    while (originalNumber != 0) {
14        originalNumber /= 10;
15        ++n;
16    }
17
18    originalNumber = number;
19
20    // calculate the sum of nth power of each digit
21    while (originalNumber != 0) {
22        remainder = originalNumber % 10;
23        result += pow(remainder, n);
24        originalNumber /= 10;
25    }
26
27    // check if the number is Armstrong or not
28    if (result == number)
29        printf("%d is an Armstrong number.\n", number);
30    else
31        printf("%d is not an Armstrong number.\n", number);
32 }
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Admin\OneDrive\Documents\Untitled2.exe
- Output Size: 151.7294921875 Kib
- Compilation Time: 0.42s

Line: 6 Col: 31 Sel: 0 Lines: 34 Length: 836 Insert Done parsing in 0.016 seconds

84°F Mostly clear 10:13 PM 28-Mar-23

C:\Users\Admin\OneDrive\Documents\Untitled2.exe

varshith 192224164 Enter an integer: 7
7 is an Armstrong number.

Process exited after 2.284 seconds with return value 0
Press any key to continue . . .

The screenshot shows the Dev-C++ IDE interface. On the left, the code editor displays a C++ program named day1.c. The code prompts the user for two integers, low and high, and then iterates through all numbers in that range to check if they are Armstrong numbers. An Armstrong number is defined as a number where the sum of its digits raised to the power of the number of digits equals the number itself. The code uses a helper function `pow` to calculate the sum of digits raised to the power of their count.

```
1 #include <stdio.h>
2 #include <math.h>
3 int main()
4 {
5     int low, high; //for taking user input for range
6     printf("varshith 192224164");
7     public int _cdecl printf (const char * __restrict__ _format, ...)
8     scanf("%d%d", &low, &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,rem,sum=0;
15        if(n==9)
16        {
17            printf("%d ",n);
18        }
19        else
20        {
21            int digit = (int) log10(num) + 1; //To count number of digits
22            //Calculating sum of power of digits of a number
23            while(num > 0)
24            {
25                rem = num % 10; //To find Last digit of the number
26                sum = sum + pow(rem,digit);
27                num = num / 10;
28            }
29            if (sum == n)
30            {
31            }
32        }
33    }
34 }
```

The output window on the right shows the execution of the program. It starts with the string "varshith 192224164". Then it asks for the starting value of the range (1), followed by the ending value (800). It then lists all Armstrong numbers between 1 and 800, which are 1, 2, 3, 4, 5, 6, 7, 8, 9, 153, 370, 371, and 407. Finally, it exits after 3.74 seconds with a return value of 0.

```
varshith 192224164Enter the starting value of the range:1
Enter the ending value of the range: 800
All Armstrong numbers between 1 and 800 are:
1 2 3 4 5 6 7 8 9 153 370 371 407
-----
Process exited after 3.74 seconds with return value 0
Press any key to continue . . . |
```

C:\Users\jaswa\OneDrive\Documents\day14c.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9

(globals)

Project Classes Debug day1.c day14c.cpp

```
1 #include <stdio.h>
2
3 long factorial(long n)
4 {
5     long i, fact = 1;
6     for (i = 1; i <= n; i++)
7     {
8         fact = fact * i;
9     }
10    return fact;
11 }
12
13 long isStrong(long n)
14 {
15     long sum = 0;
16     long i = n;
17     while (i != 0)
18     {
19         sum = sum + factorial(i % 10);
20         i = i / 10;
21     }
22     if (sum == n)
23     {
24         return 1;
25     }
26     else
27     {
28         public int __cdecl printf (const char * __restrict__ _Format, ...);
29     }
30 }
31
32 void printStrong(long n)
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\jaswa\OneDrive\Documents\day14c.exe
- Output Size: 129.197265625 KiB
- Compilation Time: 0.70s

Line: 47 Col: 21 Sel: 0 Lines: 52 Length: 789 Insert Done parsing in 0.047 seconds

9:36 PM 3/28/2023

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

varshith 192224164Enter the number: 56
Strong Numbers are: 1
2

Process exited after 2.148 seconds with return value 0
Press any key to continue . . .

The screenshot shows the Dev-C++ IDE interface. On the left, the code editor displays a C program named 'day1.c' with syntax highlighting. The code implements a prime number checker. On the right, the terminal window shows the output of running the program with the input '5'. The terminal also displays the compilation results at the bottom.

```
C:\Users\jaswa\OneDrive\Documents\day1.c - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9
(globals)
Project Classes Debug day1.c
1 #include <math.h>
2 #include <stdio.h>
3 int main()
4 {
5     int n, i, flag = 1;
6     | printf("varshith 192224164");
7     | public int __cdecl printf (const char * __restrict__ _Format, ...);
8     | scanf("%d", &n);
9
10    for (i = 2; i <= sqrt(n); i++) {
11        if (n % i == 0) {
12            flag = 0;
13            break;
14        }
15    }
16
17    if (n <= 1)
18        flag = 0;
19
20    if (flag == 1) {
21        printf("%d is a prime number", n);
22    }
23    else {
24        printf("%d is not a prime number", n);
25    }
26
27
28
29
30 }
31

varshith 192224164Enter a number:
5
5 is a prime number
-----
Process exited after 4.637 seconds with return value 0
Press any key to continue . . .

Compiler Resources Compile Log Debug Find Results Close
Compilation results...
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\jaswa\OneDrive\Documents\day1.exe
- Output Size: 133.0390625 Kib
- Compilation Time: 0.50s

Line: 6 Col: 22 Sel: 0 Lines: 31 Length: 518 Insert Done parsing in 0.047 seconds
9:22 PM 3/28/2023
```

C:\Users\Admin\OneDrive\Documents\Untitled2.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug Untitled1.cpp Untitled2.cpp

```
1 #include <stdio.h>
2 #include <math.h>
3 #include <stdio.h>
4 #include <stdio.h>
5
6 int main()
7 {
8     int n, i, f1 = 0, f2 = 1, next;
9     printf("varshith 192224164");
10    public int __cdecl printf (const char * __restrict__ _Format, ...)
11        _SILENCE_CRT_DEFINED_IN_BODY_
12
13    printf("Fibonacci Series: ");
14
15    for (i = 0; i < n; i++)
16    {
17        if (i <= 1)
18            next = i;
19        else
20        {
21            next = f1 + f2;
22            f1 = f2;
23            f2 = next;
24        }
25        printf("%d ", next);
26    }
27
28    return 0;
29 }
```

C:\Users\Admin\OneDrive\Documents\Untitled2.exe

varshith 192224164 Enter the number of terms:
6
Fibonacci Series: 0 1 1 2 3 5

Process exited after 1.978 seconds with return value 0
Press any key to continue . . .

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

Abort Compilation

Shorten compiler paths

Line: 9 Col: 31 Sel: 0 Lines: 29 Length: 521 Insert Done parsing in 0.032 seconds

84°F Mostly clear 10:51 PM 28-Mar-23

C:\Users\jaswa\OneDrive\Documents\day1.10c.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9

(globals)

Project Classes Debug day1.c day1.4c.cpp [!]day1.6c.cpp day1.8c.cpp day1.10c.cpp

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int x, y;
6     printf("varshith 192224164");
7     public int __cdecl printf (const char * __restrict__ _format, ...);
8     scanf("%d", &x);
9     printf("\nEnter 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 }
```

varshith 192224164Enter Value of x 4

Enter Value of y 6

After Swapping: x = 6, y = 4

Process exited after 1.743 seconds with return value 0

Press any key to continue . . . |

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: 21 Sel: 0 Lines: 18 Length: 330 Insert Done parsing in 0.031 seconds

10:18 PM 3/28/2023

The screenshot shows the Dev-C++ IDE interface. On the left, the code editor displays a C++ program named 'day1.c'. The code defines a recursive function 'recSum' and a main function that prints the value 'varshith 192224164'. The code editor has syntax highlighting and line numbers. Below the code editor is the 'Compiler' tab of the status bar, which shows compilation results: 'Compilation results...', 'Errors: 0', 'Warnings: 0', 'Output Filename: C:\Users\jaswa\OneDrive\Documents\day1.8c.exe', 'Output Size: 128.459609375 Kib', and 'Compilation Time: 0.59s'. The status bar also shows 'Line: 14', 'Col: 31', 'Sel: 0', 'Lines: 17', 'Length: 246', and 'Done parsing in 0.047 seconds'. On the right, the terminal window shows the output of the program: 'varshith 192224164Sum = 55'. The terminal window also includes a message: 'Process exited after 0.02441 seconds with return value 0 Press any key to continue . . .' The system tray at the bottom right shows the date and time as '10:06 PM 3/28/2023'.

```
#include <stdio.h>
int recSum(int n)
{
    if (n <= 1)
        return n;
    return n + recSum(n - 1);
}
int main()
{
    int n = 10;
    printf("varshith 192224164");
    return 0;
}
```

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

File Edit Search View Project Execute Tools AStyle Window Help

Project Classes Debug day1.c day1.4c.cpp [!]day1.6c.cpp day1.8c.cpp

varshith 192224164Sum = 55

Process exited after 0.02441 seconds with return value 0

Press any key to continue . . .

Abort Compilation

Compilation results...

- Errors: 0

- Warnings: 0

- Output Filename: C:\Users\jaswa\OneDrive\Documents\day1.8c.exe

- Output Size: 128.459609375 Kib

- Compilation Time: 0.59s

Line: 14 Col: 31 Sel: 0 Lines: 17 Length: 246 Insert Done parsing in 0.047 seconds

10:06 PM 3/28/2023

The screenshot shows a code editor window with the following details:

- Left Sidebar:** A vertical toolbar with icons for various languages and tools: Python (highlighted), C/C++, C#, Go, Java, JavaScript, and Docker.
- File Tab:** The file tab shows "main.c".
- Code Editor:** The code is written in C and prints a greeting and asks for an integer input, then checks if it's even or odd.

```
1 #include <stdio.h>
2 int main() {
3     int num;
4     printf("Varshith| 192224164");
5     printf("Enter an integer: ");
6     scanf("%d", &num);
7
8     if(num % 2 == 0)
9         printf("%d is even.", num);
10    else
11        printf("%d is odd.", num);
12
13    return 0;
14 }
```
- Run Button:** A blue "Run" button is located at the top right of the code editor.
- Output Panel:** The output panel shows the terminal session:

```
/tmp/E36cvupXZF.o
Varshith 192224164Enter an integer: 124
124 is even.
```
- Clear Button:** A "Clear" button is located in the top right corner of the output panel.

The screenshot shows the Dev-C++ IDE interface with two main windows.

Left Window (Code Editor):

```
#include <stdio.h>
int main() {
    int i, n;
    int t1 = 0, t2 = 1;
    int nextTerm = t1 + t2;
    printf("Enter the number of terms: ");
    scanf("%d", &n);
    printf("Fibonacci Series: %d, %d, ", t1, t2);
    for (i = 3; i <= n; ++i) {
        printf("varshith 192224164");
        printf("%d, ", nextTerm);
        t1 = t2;
        t2 = nextTerm;
        nextTerm = t1 + t2;
    }
    return 0;
}
```

Right Window (Output Terminal):

```
C:\Users\jaswa\OneDrive\Documents\day1.14c.cpp - [Executing] - Dev-C++ 5.11
Enter the number of terms: 2
Fibonacci Series: 0, 1,
Process exited after 1.245 seconds with return value 0
Press any key to continue . . . |
```

Bottom Bar:

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Line: 18 Col: 30 Sel: 0 Lines: 26 Length: 406 Insert Done parsing in 0.015 seconds

10:44 PM 3/28/2023

The screenshot shows the Dev-C++ IDE interface with two main windows open.

Code Editor Window:

C:\Users\jaswa\OneDrive\Documents\day1.12c.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

Project Classes Debug day1.c day1.4c.cpp [!]day1.6c.cpp day1.8c.cpp day1.10c.cpp day1.12c.cpp

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int n, i;
6     printf("varshith 192224164");
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    {
13        printf("%d x %d = %d\n", n, i, n * i);
14    }
15 }
```

Output Window:

C:\Users\jaswa\OneDrive\Doc + ×

varshith 192224164 Enter a number: 12

Multiplication table of 12:

12 x 1 = 12
12 x 2 = 24
12 x 3 = 36
12 x 4 = 48
12 x 5 = 60
12 x 6 = 72
12 x 7 = 84
12 x 8 = 96
12 x 9 = 108
12 x 10 = 120

Process exited after 0.8095 seconds with return value 0
Press any key to continue . . . |

Compiler Results Window:

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: 0.80s

Line: 6 Col: 21 Sel: 0 Lines: 14 Length: 335 Insert Done parsing in 0.015 seconds

10:28 PM 3/28/2023

The screenshot shows the Dev-C++ IDE interface with two windows open.

Code Editor Window:

```
1 #include <stdio.h>
2
3 void floyds_triangle(int rows)
4 {
5     int i, j, k = 1;
6     for (i = 1; i <= rows; i++)
7     {
8         for (j = 1; j <= i; j++)
9         {
10            printf("%4d ", k++);
11        }
12        printf("\n");
13    }
14 }
15
16 int main(void)
17 {
18     int rows;
19     printf("varshith 192224164");
20     public int __cdecl printf (const char * __restrict__ _Format, ...);
21     scanf("%d", &rows);
22
23     floyds_triangle(rows);
24
25     return 0;
26 }
```

Output Window:

```
varshith 192224164Enter 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 4.031 seconds with return value 0
Press any key to continue . . . |
```

Compiler Log Window:

```
Compilation results...
=====
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\jaswa\OneDrive\Documents\day1.20c.exe
- Output Size: 129.3115234375 KiB
- Compilation Time: 0.28s
```

Bottom status bar: Line: 19 Col: 21 Sel: 0 Lines: 26 Length: 437 Insert Done parsing in 0.015 seconds

Bottom taskbar: Search, File Explorer, Internet Explorer, Google Chrome, Settings, Task View, etc.

C:\Users\Admin\OneDrive\Documents\Untitled2.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

Project Classes Debug Untitled1.cpp Untitled2.cpp

```
1 #include <stdio.h>
2 #include <math.h>
3 #include <stdio.h>
4
5 int main() {
6     int start, end, count = 0, sum = 0;
7     printf("Varshith 192224164");
8     public int _cdecl printf (const char * __restrict__ _Format, ...);
9     sum = 0;
10    printf("Enter the ending number of the range: ");
11    scanf("%d", &end);
12
13    for (int i = start; i <= end; i++) {
14        if (i % 5 == 0) {
15            count++;
16            sum += i;
17        }
18    }
19
20    printf("The number of integers divisible by 5 in the given range is: %d\n", count);
21    printf("The sum of all integers divisible by 5 in the given range is: %d\n", sum);
22
23    return 0;
24 }
```

varshith 192224164 Enter the starting number of the range: 3
Enter the ending number of the range: 5
The number of integers divisible by 5 in the given range is: 1
The sum of all integers divisible by 5 in the given range is: 5

Process exited after 2.923 seconds with return value 0
Press any key to continue . . .

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Admin\OneDrive\Documents\Untitled2.exe
- Output Size: 128.6015625 Kib
- Compilation Time: 0.42s

Line: 7 Col: 31 Sel: 0 Lines: 24 Length: 646 Insert Done parsing in 0.032 seconds

84°F Mostly clear 10:33 PM 28-Mar-23

The screenshot shows a code editor interface with a toolbar on the left containing icons for various languages and tools. The main area displays a C program named 'main.c'. The code includes a function 'fibo' and prints the 19th number in the Fibonacci series as 4181.

```
main.c
1 #include <stdio.h>
2 int fibo(int);
3
4 int main()
5 {
6     int num;
7     int result;
8     printf("Varshith| 192224164");
9     printf("Enter the nth number in fibonacci series: ");
10    scanf("%d", &num);
11    if (num < 0)
12    {
13        printf("Fibonacci of negative number is not possible.\n");
14    }
15    else
16    {
17        result = fibo(num);
18        printf("The %d number in fibonacci series is %d\n", num,
19               result);
}
```

Output

```
/tmp/E36cvupXZF.o
Varshith 192224164Enter the nth number in fibonacci series: 19
The 19 number in fibonacci series is 4181
```

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main.c

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int n;
6     printf("varshith 192224164");
7     printf("Enter number:");
8     scanf("%d",&n);
9     int sum=0;
10    for(int i=1;i<=n;i++)
11        sum += i;
12    printf("sum of first %d numbers is: %d",n,sum);
13    return 0;
14 }
```

Run

Output

Clear

```
/tmp/Sgxxt3xvHn.o
varshith 192224164Enter number:12
sum of first 12 numbers is: 78
```

84°F Mostly clear

Search L D O S I Y

ENG IN 22:10 28-03-2023

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Clear

main.c

```
1 #include <stdio.h>
2 int main() {
3     int year;
4     printf("varshith 192224164");
5     printf("Enter a year: ");
6     scanf("%d", &year);
7
8     // leap year if perfectly divisible by 400
9     if (year % 400 == 0) {
10         printf("%d is a leap year.", year);
11     }
12     // not a leap year if divisible by 100
13     // but not divisible by 400
14     else if (year % 100 == 0) {
15         printf("%d is not a leap year.", year);
16     }
17     // leap year if not divisible by 100
18     // but divisible by 4
19     else if (year % 4 == 0) {
20         printf("%d is a leap year.", year);
21     }
22     // all other years are not leap years
23     else {
24         printf("%d is not a leap year.", year);
25     }
26
```

Output

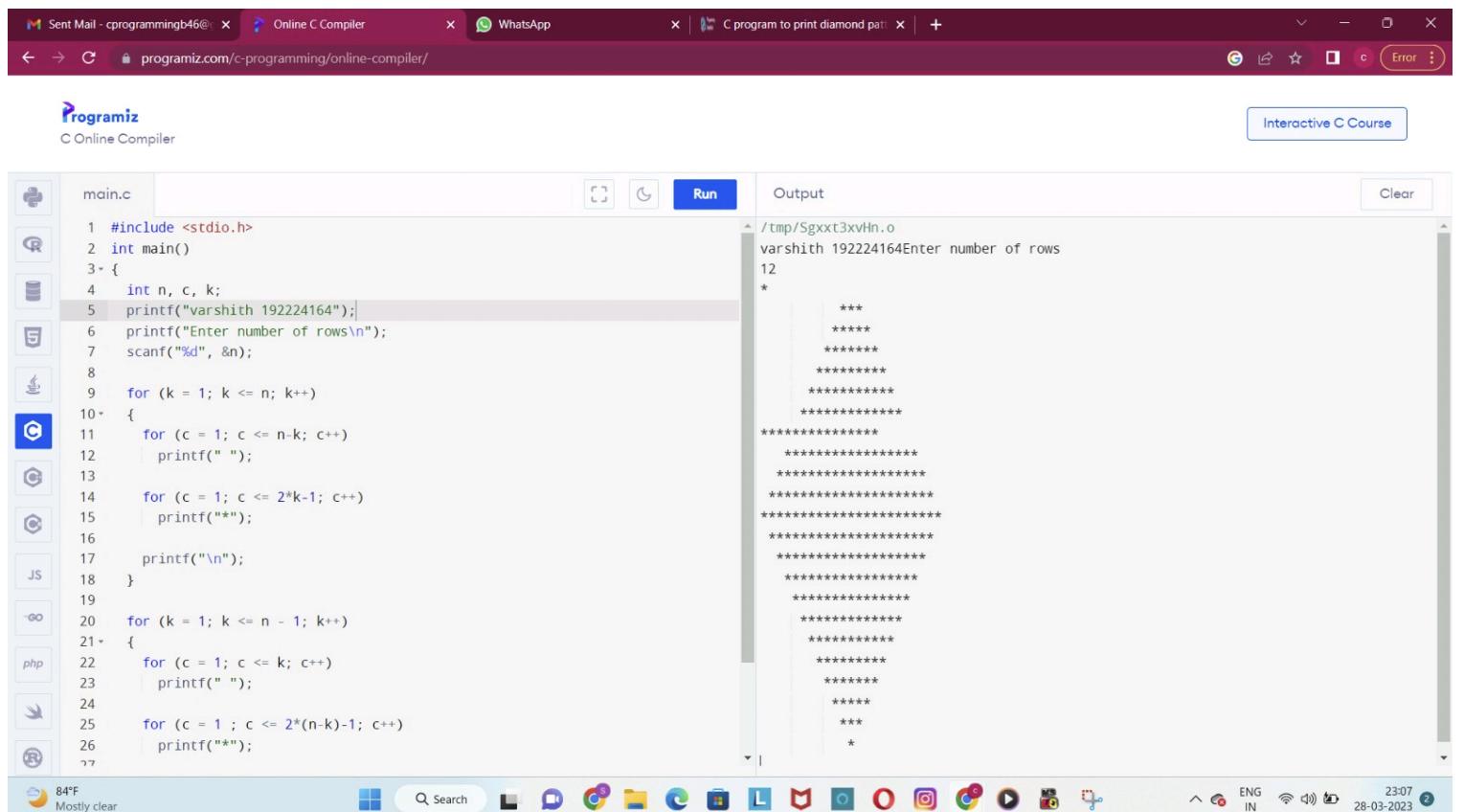
```
/tmp/Sgxt3xvHn.o
varshith 192224164Enter a year: 2023
2023 is not a leap year.2023
dash: 2: 2023: not found
```

Waiting for pgħbl1.pubgalaxy.com...

84°F Mostly clear

Search

22:33 28-03-2023



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main.c

```
1 #include <stdio.h>
2 int main() {
3     int n, i;
4     unsigned long long fact = 1;
5     printf("Varshith 192224164");
6     printf("Enter an integer: ");
7     scanf("%d", &n);
8
9     // shows error if the user enters a negative integer
10    if (n < 0)
11        printf("Error! Factorial of a negative number doesn't exist.");
12    else {
13        for (i = 1; i <= n; ++i) {
14            fact *= i;
15        }
16        printf("Factorial of %d = %llu", n, fact);
17    }
18
19    return 0;
20 }
```

Output

```
/tmp/Sgxt3xvHn.o
varshith 192224164Enter an integer: 15
Factorial of 15 = 1307674368000
```

Clear

84°F Mostly clear

Search

22:50 28-03-2023