

main.c Run Output Clear

```
1 #include <stdio.h>
2 int main() {
3     int year;
4     printf("manikanta 192210414");
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
27     return 0;
```

/tmp/Sgxxt3xvHn.o  
manikanta 192210414Enter a year: 2022  
2022 is not a leap year.

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
5 int main() {
6     int start, end, count = 0, sum = 0;
7     printf("manikanta 192210414");
8     printf("Enter the starting number of the range: ");
9     scanf("%d", &start);
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 }
```

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: 0.44s









Line: 7 Col: 22 Sel: 0 Lines: 24 Length: 647 Insert Done parsing in 0.031 seconds

C:\Users\Admin\OneDrive x + - □ x

manikanta 192210414Enter the starting number of the range: 7  
Enter the ending number of the range: 8  
The number of integers divisible by 5 in the given range is: 0  
The sum of all integers divisible by 5 in the given range is: 0

-----

Process exited after 3.391 seconds with return value 0  
Press any key to continue . . .



main.c

Run

```
1  #include <stdio.h>
2  int main()
3  {
4      int c = 0, count = 0;
5      char s[1000];
6      printf("Manikanta| 192210414");
7
8      printf("Input a string\n");
9      gets(s);
10
11     while (s[c] != '\0') {
12         if (s[c] == 'a' || s[c] == 'A' || s[c] == 'e' || s[c] == 'E' ||
13             s[c] == 'i' || s[c] == 'I' || s[c] == 'o' || s[c] == 'O' ||
14             s[c] == 'u' || s[c] == 'U')
15             count++;
16         c++;
17     }
18     printf("Number of vowels in the string: %d", count);
```

Output

Clear

```
/tmp/E36cvupXZF.o
Manikanta 192210414Input a string
MANIKANTA
Number of vowels in the string: 4
```

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

File Edit Search View Project Execute Tools AStyle Window Help

(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("manikanta 192210414");
10    scanf("%d", &n);
11    printf("Fibonacci Series: ");
12
13    for (i = 0; i < n; i++)
14    {
15        if (i <= 1)
16            next = i;
17        else
18        {
19            next = f1 + f2;
20            f1 = f2;
21            f2 = next;
22        }
23        printf("%d ", next);
24    }
25
26    return 0;
27 }
28
29 }
```

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: 9 Col: 32 Sel: 0 Lines: 29 Length: 522 Insert Done parsing in 0.047 seconds

C:\Users\Admin\OneD x + - □ ×

manikanta 192210414Enter the number of terms  
: 4  
Fibonacci Series: 0 1 1 2  
-----  
Process exited after 2.304 seconds with return value 0  
Press any key to continue . . .



JS

GO

main.c

Run

```
1 #include <stdio.h>
2 int fibo(int);
3
4 int main()
5 {
6     int num;
7     int result;
8     printf("Manikanta 192210414");
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);
19    }
```

Output

Clear

```
/tmp/E36cvupXZF.o
Manikanta 192210414Enter the nth number in fibonacci series: 5
The 5 number in fibonacci series is 5
```





C Online Compiler

Interactive C Course

main.c

```
1 #include <stdio.h>
2 int main() {
3     int n, i;
4     unsigned long long fact = 1;
5     printf("manikanta 192210414");
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 }
21
```

Run

Output

Clear

```
/tmp/Sgxxt3xvHn.o
manikanta 192210414Enter an integer: 14
Factorial of 14 = 87178291200
```

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

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

Project Classes Debug

Untitled1.cpp

```
1 #include <stdio.h>
2
3 int main() {
4     int n, i, flag = 0;
5     printf("manikanta 192210414");
6     scanf("%d", &n);
7
8     // Check if the number is divisible by any number other than 1 and itself
9     for(i=2; i<=n/2; ++i) {
10         if(n%i == 0) {
11             flag = 1;
12             break;
13         }
14     }
15
16     if(n == 1) {
17         printf("1 is neither prime nor composite.\n");
18     }
19     else {
20         if(flag == 0)
21             printf("%d is a prime number.\n", n);
22         else
23             printf("%d is not a prime number.\n", n);
24     }
25
26     return 0;
27 }
28 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Admin\OneDrive\Documents\Untitled1.exe
- Output Size: 128.7705078125 KiB
- Compilation Time: 0.16s
```

















Line: 5 Col: 32 Sel: 0 Lines: 28 Length: 622 Insert Done parsing in 0.015 seconds

C:\Users\Admin\OneC x + - □ x



manikanta 192210414Enter a positive integer:  
4  
4 is not a prime number.

-----

Process exited after 2.837 seconds with return value 0  
Press any key to continue . . . |



main.c



Run

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int i, num, sum = 0;
6     printf("Manikanta 192210414");
7
8     printf("Enter any number to check perfect number: ");
9     scanf("%d", &num);
10
11     for(i = 1; i <= num / 2; i++)
12     {
13         if(num%i == 0)
14         {
15             sum += i;
16         }
17     }
18
19     if(sum == num && num > 0)
20     {
```

Output

Clear

```
/tmp/DKK3js7iuY.o
Manikanta 192210414Enter any number to check perfect number: 3
3 is NOT PERFECT NUMBER
```



C:\Users\jaswa\OneDrive\Documents\day1.14c.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 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("manikantasai 192210414");
18        printf("%d, ", nextTerm);
19        t1 = t2;
20        t2 = nextTerm;
21        nextTerm = t1 + t2;
22    }
23
24    return 0;
25 }
26
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

-----

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\jaswa\OneDrive\Documents\day1.14c.exe
- Output Size: 128.6015625 KiB
- Compilation Time: 0.27s

Line: 22 Col: 4 Sel: 0 Lines: 26 Length: 410 Insert Done parsing in 0.015 seconds

C:\Users\jaswa\OneDrive\Doc

```
Enter the number of terms: 2
Fibonacci Series: 0, 1,
-----
Process exited after 1.757 seconds with return value 0
Press any key to continue . . .
```

10:51 PM  
3/28/2023

```
C:\Users\jaswa\OneDrive\Documents\day1.20c.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
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("%4.d ", k ++);
11         }
12         printf("\n");
13     }
14 }
15
16 int main(void)
17 {
18     int rows;
19     printf("manikantasai 192210414");
20     printf("Enter the number of rows: ");
21     scanf("%d", &rows);
22
23     floyds_triangle(rows);
24
25     return 0;
26 }
Compiler Resources Compile Log Debug Find Results Close
Compilation results...
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\jaswa\OneDrive\Documents\day1.20c.exe
- Output Size: 129.3115234375 KiB
- Compilation Time: 0.30s
Line: 19 Col: 22 Sel: 0 Lines: 26 Length: 441 Insert Done parsing in 0 seconds
```

```
C:\Users\jaswa\OneDrive\Doc
manikantasai 192210414Enter the number of rows: 7
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
-----
Process exited after 1.772 seconds with return value 0
Press any key to continue . . .
```



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

```
1 #include <stdio.h>
2 #include <math.h>
3 int main()
4 {
5     int low, high; //for taking user input for range
6     printf("manikanta sai 192210414");
7     public int __cdecl printf (const char * __restrict__ _Format, ...)
8     scanf("%d", &low);
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
23            //Calculating sum of power of digits of a number
24            while(num > 0)
25            {
26                rem = num % 10; //To find last digit of the number
27                sum = sum + pow(rem, digit);
28                num = num / 10;
29            }
30
31            if (sum == n)
32            {
```

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: 0.72s

Line: 6 Col: 27 Sel: 0 Lines: 38 Length: 1048 Insert Done parsing in 0.047 seconds

C:\Users\jaswa\OneDrive\Doc

```
manikanta sai 192210414Enter the starting value of the range:9
Enter the ending value of the range: 456
All Armstrong numbers between 9 and 456 are:
9 153 370 371 407
-----
Process exited after 2.811 seconds with return value 0
Press any key to continue . . .
```

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```
1  #include <stdio.h>
2  #include <math.h>
3
4  int main() {
5      int number, originalNumber, remainder, result = 0, n = 0;
6      printf("manikanta 192210414");
7      scanf("%d", &number);
8
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 }
```

Abort Compilation

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Admin\OneDrive\Documents\Untitled2.exe
- Output Size: 151.7294921875 KiB
- Compilation Time: 0.56s
```



```
manikanta 192210414Enter an integer: 5
5 is an Armstrong number.
```

```
-----
Process exited after 1.987 seconds with return value 0
Press any key to continue . . .
```



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 day1.c day1.4c.cpp [\*] day1.6c.cpp day1.8c.cpp

```
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("manikantasai192210414");
15     public int __cdecl printf (const char * __restrict__ _Format, ...)
16     return 0;
17 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\jaswa\OneDrive\Documents\day1.8c.exe
- Output Size: 128.4599609375 KiB
- Compilation Time: 0.50s

Line: 14 Col: 22 Sel: 0 Lines: 17 Length: 249 Insert Done parsing in 0.016 seconds

C:\Users\jaswa\OneDrive\Doc

```
manikantasai192210414Sum = 55
-----
Process exited after 0.01691 seconds with return value 0
Press any key to continue . . .
```

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C:\Users\jaswa\OneDrive\Documents\day1.10c.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

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int x, y;
6     printf("manikantasai 192210414");
7     scanf("%d", &x);
8     printf("\nEnter Value of y ");
9     scanf("%d", &y);
10
11     int temp = x;
12     x = y;
13     y = temp;
14
15     printf("\nAfter Swapping: x = %d, y = %d", x, y);
16     return 0;
17 }
18
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\jaswa\OneDrive\Documents\day1.10c.exe
- Output Size: 128.6015625 KiB
- Compilation Time: 0.55s

Line: 6 Col: 25 Sel: 0 Lines: 18 Length: 334 Insert Done parsing in 0.031 seconds

C:\Users\jaswa\OneDrive\Doc

```
manikantasai 192210414Enter Value of x 4
Enter Value of y 88
After Swapping: x = 88, y = 4
-----
Process exited after 1.93 seconds with return value 0
Press any key to continue . . .
```

10:21 PM 3/28/2023

C:\Users\jaswa\OneDrive\Documents\day1.4c.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

```
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         return 0;
29     }
30 }
31
32 void printStrong(long n)
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

```
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\jaswa\OneDrive\Documents\day1.4c.exe
- Output Size: 129.197265625 KiB
- Compilation Time: 0.58s
```

Line: 30 Col: 2 Sel: 0 Lines: 52 Length: 793 Insert Done parsing in 0.031 seconds

C:\Users\jaswa\OneDrive\Doc

```
manikantasai 192210414Enter the number: 10
Strong Numbers are: 1
2

-----
Process exited after 0.8748 seconds with return value 0
Press any key to continue . . . |
```

9:35 PM 3/28/2023



main.c

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int n;
6     printf("manikanta 192210414");
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 }
```

Output

```
/tmp/Sgxxt3xvHn.o
manikanta 192210414Enter number:19
sum of first 19 numbers is: 190
```

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("manikantasai 192210414");
7     printf("Enter a positive integer: ");
8     scanf("%d",&n);
9     printf("Factorial of %d = %ld", n, multiplyNumbers(n));
10    return 0;
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

Abort Compilation

Shorten compiler paths

Compilation results...

-----

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\jaswa\OneDrive\Documents\day1.18c.exe
- Output Size: 129.1396484375 KiB
- Compilation Time: 0.27s

Line: 19 Col: 1 Sel: 0 Lines: 19 Length: 389 Insert Done parsing in 0.031 seconds

C:\Users\jaswa\OneDrive\Doc

```
manikantasai 192210414Enter a positive integer: 4
Factorial of 4 = 24
-----
Process exited after 1.553 seconds with return value 0
Press any key to continue . . .
```

11:00 PM 3/28/2023



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

File Edit Search View Project Execute Tools AStyle Window Help

(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("manikanta sai 192210414");
7     public int __cdecl printf (const char * __restrict__ _Format, ...)
8     scanf("%d", &n);
9
10    for (i = 2; i <= sqrt(n); i++) {
11
12        if (n % i == 0) {
13            flag = 0;
14            break;
15        }
16    }
17
18    if (n <= 1)
19        flag = 0;
20
21    if (flag == 1) {
22        printf("%d is a prime number", n);
23    }
24    else {
25        printf("%d is not a prime number", n);
26    }
27
28    return 0;
29 }
30
31
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

```
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\jaswa\OneDrive\Documents\day1.exe
- Output Size: 133.0390625 KiB
- Compilation Time: 0.56s
```

Line: 6 Col: 14 Sel: 0 Lines: 31 Length: 523 Insert Done parsing in 0.047 seconds

C:\Users\jaswa\OneDrive\Doc

```
manikanta sai 192210414Enter a number:
2
2 is a prime number
-----
Process exited after 1.844 seconds with return value 0
Press any key to continue . . .
```

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C:\Users\jaswa\OneDrive\Documents\day1.12c.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

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int n, i;
6     printf("manikantasai 192210414");
7     printf("Multiplication table of %d:\n", n);
8     printf("-----\n");
9     for (i = 1; i <= 10; i++)
10         printf("%d x %d = %d\n", n, i, n * i);
11
12     return 0;
13 }
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: 0.45s

Line: 6 Col: 25 Sel: 0 Lines: 14 Length: 339 Insert Done parsing in 0.016 seconds

C:\Users\jaswa\OneDrive\Doc

```
manikantasai 192210414Enter a number: 5
Multiplication table of 5:
-----
5 x 1 = 5
5 x 2 = 10
5 x 3 = 15
5 x 4 = 20
5 x 5 = 25
5 x 6 = 30
5 x 7 = 35
5 x 8 = 40
5 x 9 = 45
5 x 10 = 50
-----
Process exited after 0.4501 seconds with return value 0
Press any key to continue . . .
```

10:33 PM 3/28/2023