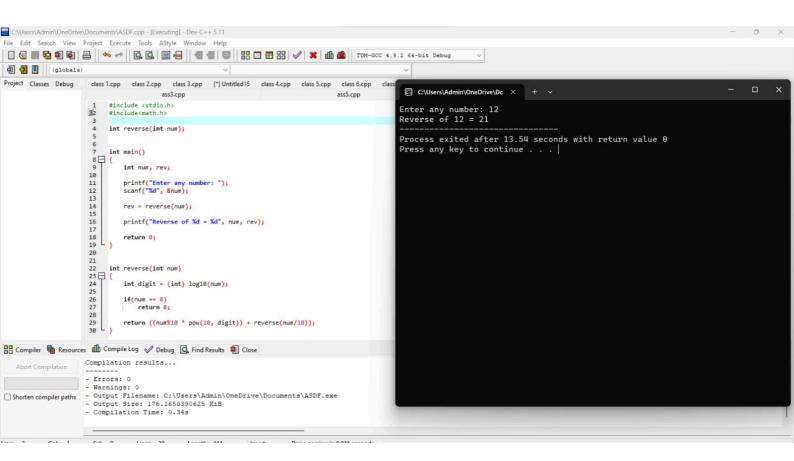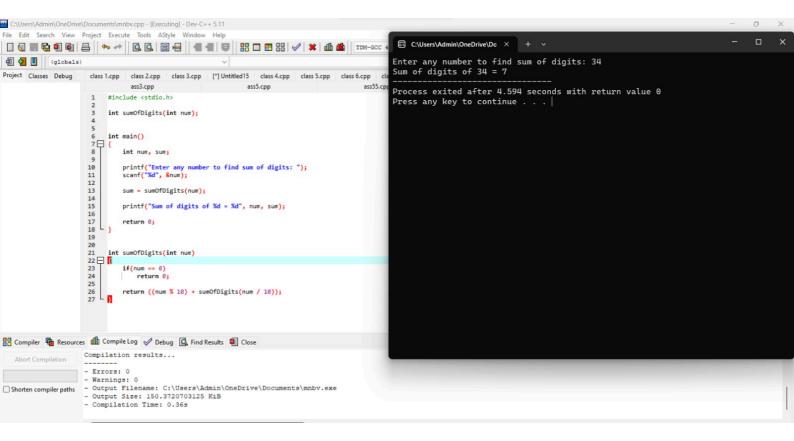C:\Users\Admin\OneDrive\Documents\mkjiu.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

Project Classes Debug

class 1.cpp | class 2.cpp | class 3.cpp | [*] Untitled15 | class 4.cpp | class 5.cpp | class 6.cpp | clas...

ass3.cpp | ass5.cpp | ass55.cpp | ASDF

```cpp
4
5    int main()
6  {
7        int arr[MAX_SIZE];
8        int N, i;
9        int * ptr = arr;
10
11       printf("Enter size of array: ");
12       scanf("%d", &N);
13
14       printf("Enter elements in array:\n");
15       for (i = 0; i < N; i++)
16       {
17           scanf("%d", ptr);
18
19           ptr++;
20       }
21
22       ptr = arr;
23
24       printf("Array elements: ");
25       for (i = 0; i < N; i++)
26       {
27           printf("%d, ", *ptr);
28
29           ptr++;
30       }
31
32       return 0;
33  }
```

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\mkjiu.exe
- Output Size: 150.0068359375 KiB
- Compilation Time: 0.47s

C:\Users\Admin\OneDrive\Do

```
Enter size of array: 6
Enter elements in array:
9
4
3
2
1
5
Array elements: 9, 4, 3, 2, 1, 5,
--------------------------------
Process exited after 13.94 seconds with return value 0
Press any key to continue . . .
```

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

TDM-GCC 4.9.2 64-bit Debug

(globals)

Project Classes Debug   class 1.cpp   class 2.cpp   class 3.cpp   [*] Untitled15   class 4.cpp   class 5.cpp   class 6.cpp   class 7.cpp   class 8.cpp   class 9.cpp   class 10.cpp   class 11.cpp   class 12.cpp   [*] class 13.cpp   class 14.cpp   ass1.cpp   ass 2.cpp

ass3.cpp   ass5.cpp   ass55.cpp   ASDF.cpp   zxcv.cpp

```c
1    #include <stdio.h>
2    #include <math.h>
3
4    int reverse(int num);
5    int isPalindrome(int num);
6
7
8
9    int main()
10   {
11       int num;
12
13       printf("Enter any number: ");
14       scanf("%d", &num);
15
16       if(isPalindrome(num) == 1)
17       {
18           printf("%d is palindrome number.\n", num);
19       }
20       else
21       {
22           printf("%d is NOT palindrome number.\n", num);
23       }
24
25       return 0;
26   }
27
28
29
30   int isPalindrome(int num)
31   {
```

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\zxcv.exe
- Output Size: 176.7001953125 KiB
- Compilation Time: 0.42s
```

C:\Users\Admin\OneDrive\Dc

```
Enter any number: 99
99 is palindrome number.

---------------------------------
Process exited after 3.075 seconds with return value 0

Press any key to continue . . .
```

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

TDM-GCC 4.9.2 64-bit Debug

(globals)

class 1.cpp   class 2.cpp   class 3.cpp   [*] Untitled15   class 4.cpp   class 5.cpp   class 6.cpp   class
ass3.cpp   ass5.cpp

```c
#include <stdio.h>
#include<math.h>

int reverse(int num);

int main()
{
    int num, rev;

    printf("Enter any number: ");
    scanf("%d", &num);

    rev = reverse(num);

    printf("Reverse of %d = %d", num, rev);

    return 0;
}

int reverse(int num)
{
    int digit = (int) log10(num);

    if(num == 0)
        return 0;

    return ((num%10 * pow(10, digit)) + reverse(num/10));
}
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Admin\OneDrive\Documents\ASDF.exe
- Output Size: 176.1650390625 KiB
- Compilation Time: 0.34s
```

Abort Compilation

Shorten compiler paths

C:\Users\Admin\OneDrive\Do

```
Enter any number: 12
Reverse of 12 = 21
------------------------------------
Process exited after 13.54 seconds with return value 0
Press any key to continue . . .
```

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

Project Classes Debug   class 1.cpp   class 2.cpp   class 3.cpp   [*] Untitled15   class 4.cpp   class 5.cpp   class 6.cpp   cla
                                    ass3.cpp   ass5.cpp   ass55.cpp

```c
#include <stdio.h>

int sumOfDigits(int num);

int main()
{
    int num, sum;

    printf("Enter any number to find sum of digits: ");
    scanf("%d", &num);

    sum = sumOfDigits(num);

    printf("Sum of digits of %d = %d", num, sum);

    return 0;
}


int sumOfDigits(int num)
{
    if(num == 0)
        return 0;

    return ((num % 10) + sumOfDigits(num / 10));
}
```

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\mnbv.exe
- Output Size: 150.3720703125 KiB
- Compilation Time: 0.36s
```

```
Enter any number to find sum of digits: 34
Sum of digits of 34 = 7
----------------------------------
Process exited after 4.594 seconds with return value 0
Press any key to continue . . .
```

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

TDM-GCC 4.9.2 64-bit Debug

(globals)

class 1.cpp   class 2.cpp   class 3.cpp   [*] Untitled15   class 4.cpp   class 5.cpp   cla   .cpp   class 14.cpp   ass1.cpp   ass 2.cpp
ass3.cpp   ass5.cpp   ass55.cpp   A   nkjiu.cpp   vgyu.cpp

```c
1    #include <stdio.h>
2
3    #define MAX_SIZE 100
4
5
6    void printArray(int arr[], int size);
7
8
9    int main()
10   {
11       int source_arr[MAX_SIZE], dest_arr[MAX_SIZE];
12       int size, i;
13
14       int *source_ptr = source_arr;
15       int *dest_ptr   = dest_arr;
16
17       int *end_ptr;
18
19
20       printf("Enter size of array: ");
21       scanf("%d", &size);
22       printf("Enter elements in array: ");
23       for (i = 0; i < size; i++)
24       {
25           scanf("%d", (source_ptr + i));
26       }
27
28
29       end_ptr = &source_arr[size - 1];
30
31
```

Console window:
```
Enter size of array: 8
Enter elements in array: 1
2
3
4
5
6
7
8

Source array before copying: 1, 2, 3, 4, 5, 6, 7, 8,
Destination array before copying: 1409286228, 6488175, 71435
41, 7209061, 7536756, 7733340, 7929959, 3014773,

Source array after copying: 1, 2, 3, 4, 5, 6, 7, 8,
Destination array after copying: 1, 2, 3, 4, 5, 6, 7, 8,
----------------------------------
Process exited after 13.16 seconds with return value 0
Press any key to continue . . .
```

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\vgyu.exe
- Output Size: 150.873046875 KiB
- Compilation Time: 0.42s
```

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

(globals)

Project   Classes   Debug   class 1.cpp   class 2.cpp   class 3.cpp   class 4.cpp   class 5.cpp   class 6.cpp   class 7.cpp   class 8.c

```c
1    #include <stdio.h>
2
3    int sum(int n) {
4
5        if (n == 10){
6
7            printf("192224166-sainadh");
8            return 1;
9        } else {
10           return n + sum(n-1);
11       }
12   }
13
14   int main() {
15       int n;
16       printf("Enter a positive integer: ");
17       scanf("%d", &n);
18       printf("The sum of all natural numbers between 1 to %d is %d\n", n
19       return 0;
20   }
```

Console output:

```
Enter a positive integer: 34
192224166-sainadhThe sum of all natural numbers be
tween 1 to 34 is 541

---------------------------------
Process exited after 1.459 seconds with return val
ue 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\class 13.exe
- Output Size: 150.35546875 KiB
- Compilation Time: 0.36s
```
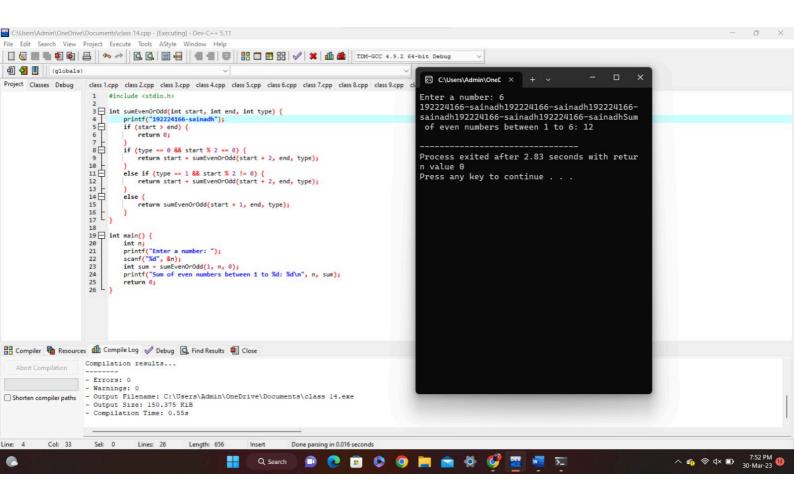
Abort Compilation

☐ Shorten compiler paths

Line: 7   Col: 5   Sel: 0   Lines: 20   Length: 355   Insert   Done parsing in 0.016 seconds

File Edit Search View Project Execute AStyle Window Help

TDM-GCC 4.9.2 64-bit Debug

(globals)

Project Classes Debug

class 1.cpp class 2.cpp class 3.cpp class 4.cpp class 5.cpp class 6.cpp class 7.cpp class 8.cpp class 9.cpp cl

```c
1    #include <stdio.h>
2
3    int sumEvenOrOdd(int start, int end, int type) {
4        printf("192224166-sainadh");
5        if (start > end) {
6            return 0;
7        }
8        if (type == 0 && start % 2 == 0) {
9            return start + sumEvenOrOdd(start + 2, end, type);
10       }
11       else if (type == 1 && start % 2 != 0) {
12           return start + sumEvenOrOdd(start + 2, end, type);
13       }
14       else {
15           return sumEvenOrOdd(start + 1, end, type);
16       }
17   }
18
19   int main() {
20       int n;
21       printf("Enter a number: ");
22       scanf("%d", &n);
23       int sum = sumEvenOrOdd(1, n, 0);
24       printf("Sum of even numbers between 1 to %d: %d\n", n, sum);
25       return 0;
26   }
```

Enter a number: 6
192224166-sainadh192224166-sainadh192224166-
sainadh192224166-sainadh192224166-sainadhSum
 of even numbers between 1 to 6: 12

Process exited after 2.83 seconds with retur
n value 0
Press any key to continue . . .

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\class 14.exe
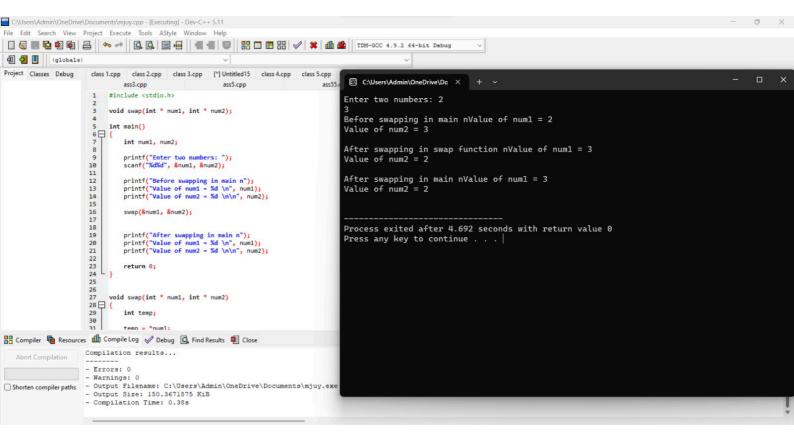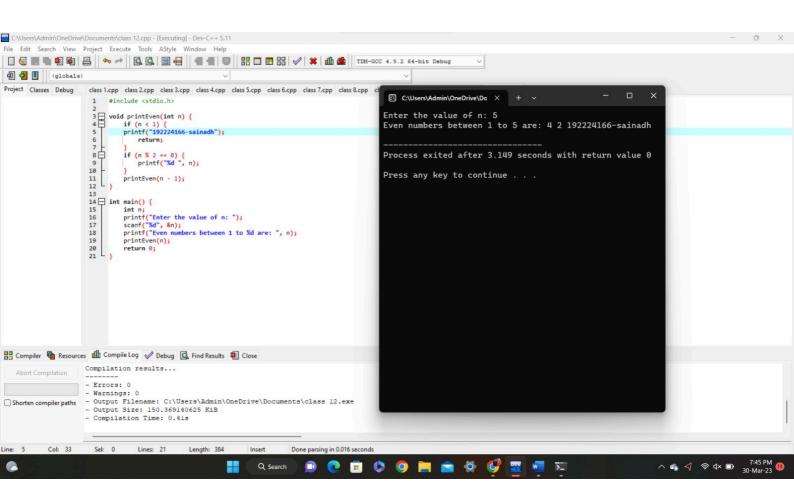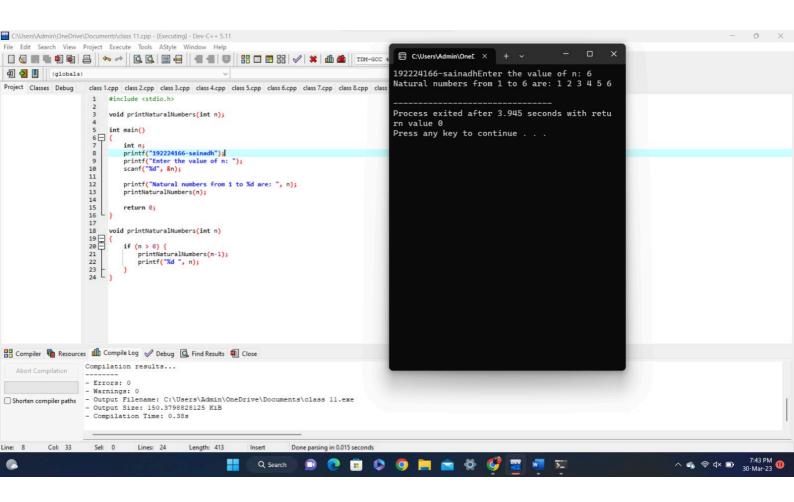- Output Size: 150.375 KiB
- Compilation Time: 0.55s

Line: 4   Col: 33   Sel: 0   Lines: 26   Length: 656   Insert   Done parsing in 0.016 seconds

Q Search

7:52 PM
30-Mar-23

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Debug

(globals)

Project Classes Debug

class 1.cpp   class 2.cpp   class 3.cpp   [*] Untitled15   class 4.cpp   class 5.cpp
ass3.cpp   ass5.cpp   ass55.c

```c
1    #include <stdio.h>
2
3    void swap(int * num1, int * num2);
4
5    int main()
6    {
7        int num1, num2;
8
9        printf("Enter two numbers: ");
10       scanf("%d%d", &num1, &num2);
11
12       printf("Before swapping in main n");
13       printf("Value of num1 = %d \n", num1);
14       printf("Value of num2 = %d \n\n", num2);
15
16       swap(&num1, &num2);
17
18
19       printf("After swapping in main n");
20       printf("Value of num1 = %d \n", num1);
21       printf("Value of num2 = %d \n\n", num2);
22
23       return 0;
24   }
25
26
27   void swap(int * num1, int * num2)
28   {
29       int temp;
30
31       temp = *num1;
```

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\mjuy.exe
- Output Size: 150.3671875 KiB
- Compilation Time: 0.38s

C:\Users\Admin\OneDrive\Do

```
Enter two numbers: 2
3
Before swapping in main nValue of num1 = 2
Value of num2 = 3

After swapping in swap function nValue of num1 = 3
Value of num2 = 2

After swapping in main nValue of num1 = 3
Value of num2 = 2


------------------------------------
Process exited after 4.692 seconds with return value 0
Press any key to continue . . .
```

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Debug

(globals)

class 1.cpp class 2.cpp class 3.cpp class 4.cpp class 5.cpp class 6.cpp class 7.cpp class 8.cpp cl

```c
1    #include <stdio.h>
2
3    void printEven(int n) {
4        if (n < 1) {
5            printf("192224166-sainadh");
6            return;
7        }
8        if (n % 2 == 0) {
9            printf("%d ", n);
10       }
11       printEven(n - 1);
12   }
13
14   int main() {
15       int n;
16       printf("Enter the value of n: ");
17       scanf("%d", &n);
18       printf("Even numbers between 1 to %d are: ", n);
19       printEven(n);
20       return 0;
21   }
```

C:\Users\Admin\OneDrive\Do

```
Enter the value of n: 5
Even numbers between 1 to 5 are: 4 2 192224166-sainadh

------------------------------------
Process exited after 3.149 seconds with return value 0

Press any key to continue . . .
```

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\class 12.exe
- Output Size: 150.369140625 KiB
- Compilation Time: 0.41s
```

Line: 5   Col: 33   Sel: 0   Lines: 21   Length: 384   Insert   Done parsing in 0.016 seconds

File Edit Search View Project Execute AStyle Window Help

(globals)

Project Classes Debug

class 1.cpp class 2.cpp class 3.cpp class 4.cpp class 5.cpp class 6.cpp class 7.cpp class 8.cpp class

```c
1     #include <stdio.h>
2
3     void printNaturalNumbers(int n);
4
5     int main()
6     {
7         int n;
8         printf("192224166-sainadh");
9         printf("Enter the value of n: ");
10        scanf("%d", &n);
11
12        printf("Natural numbers from 1 to %d are: ", n);
13        printNaturalNumbers(n);
14
15        return 0;
16    }
17
18    void printNaturalNumbers(int n)
19    {
20        if (n > 0) {
21            printNaturalNumbers(n-1);
22            printf("%d ", n);
23        }
24    }
```

C:\Users\Admin\OneD ×

```
192224166-sainadhEnter the value of n: 6
Natural numbers from 1 to 6 are: 1 2 3 4 5 6

--------------------------------
Process exited after 3.945 seconds with retu
rn value 0
Press any key to continue . . .
```

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\class 11.exe
- Output Size: 150.3798828125 KiB
- Compilation Time: 0.38s
```

Line: 8   Col: 33   Sel: 0   Lines: 24   Length: 413   Insert   Done parsing in 0.015 seconds

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

TDM-GCC 4.9.2 64-bit Debug

(globals)

class 1.cpp   class 2.cpp   class 3.cpp   class 4.cpp   class 5.cpp   class 6.cpp   class 7.cpp   class 8.cpp   class 9.cpp   class 10.cpp

```c
#include <stdio.h>

int power(int base, int exponent);

int main() {
    int base, exponent;
    printf("192224166-sainadh");
    printf("Enter the base number: ");
    scanf("%d", &base);

    printf("Enter the exponent: ");
    scanf("%d", &exponent);

    printf("%d raised to the power of %d is %d\n", base, exponent, power(base, exp

    return 0;
}

int power(int base, int exponent) {
    if (exponent == 0) {
        return 1;
    } else {
        return base * power(base, exponent - 1);
    }
}
```

C:\Users\Admin\OneDrive\Dc

```
192224166-sainadhEnter the base number: 8
Enter the exponent: 3
8 raised to the power of 3 is 512

--------------------------------
Process exited after 4.946 seconds with return value 0

Press any key to continue . . .
```

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\class 10.exe
- Output Size: 150.4013671875 KiB
- Compilation Time: 0.38s
```

Line: 7   Col: 6   Sel: 0   Lines: 25   Length: 539   Insert   Done parsing in 0.015 seconds

File Edit Search View Project Execute AStyle Window Help

TDM-GCC 4.9.2 64-bit Debug

(globals)

class 1.cpp class 2.cpp class 3.cpp class 4.cpp class 5.cpp class 6.cpp class 7.cpp

```c
1    #include <stdio.h>
2
3
4    int factorial(int n)
5    {
6        printf("192224166-sainadh");
7        int fact = 1;
8        for(int i = 1; i <= n; i++)
9        {
10           fact *= i;
11       }
12       return fact;
13   }
14
15
16   int isStrong(int n)
17   {
18       int sum = 0;
19       int temp = n;
20       while(temp != 0)
21       {
22           int digit = temp % 10;
23           sum += factorial(digit);
24           temp /= 10;
25       }
26       if(sum == n)
27       {
28           return 1;
29       }
30       else
31       {
32           return 0;
```

C:\Users\Admin\OneDrive\Do

```
Enter the start and end of the interval: 2
9
The strong numbers between 2 and 9 are:
192224166-sainadh2
192224166-sainadh192224166-sainadh192224166-sainadh1
92224166-sainadh192224166-sainadh192224166-sainadh19
2224166-sainadh
--------------------------------
Process exited after 3.645 seconds with return value
 0
Press any key to continue . . . |
```

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\class 7.exe
- Output Size: 150.3994140625 KiB
- Compilation Time: 0.36s

Line: 6   Col: 33   Sel: 0   Lines: 50   Length: 824   Insert   Done parsing in 0.015 seconds

Q Search

7:32 PM
30-Mar-23

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

TDM-GCC 4.9.2 64-bit Debug

class 1.cpp class 2.cpp class 3.cpp class 4.cpp class 5.cpp class 6.cpp class 7.cpp class 8.cpp

```c
1    #include <stdio.h>
2    #include <math.h>
3
4    int isArmstrong(int n);
5    void printArmstrong(int start, int end);
6
7    int main() {
8        int start, end;
9        printf("192224166-sainadh");
10       printf("Enter the start and end of the interval: ");
11       scanf("%d %d", &start, &end);
12
13       printf("Armstrong numbers between %d and %d are:\n", start, end);
14       printArmstrong(start, end);
15
16       return 0;
17   }
18
19
20   int isArmstrong(int n) {
21       int digits = 0, sum = 0, temp = n;
22       while (temp > 0) {
23           digits++;
24           temp /= 10;
25       }
26       temp = n;
27       while (temp > 0) {
28           sum += pow(temp % 10, digits);
29           temp /= 10;
30       }
31       return sum == n;
32   }
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Admin\OneDrive\Documents\class 8.exe
- Output Size: 176.5380859375 KiB
- Compilation Time: 0.38s

Abort Compilation

Shorten compiler paths

Line: 9   Col: 33   Sel: 0   Lines: 41   Length: 847   Insert   Done parsing in 0 seconds

Terminal output:

```
192224166-sainadhEnter the start and end of the interva
l: 5
8
Armstrong numbers between 5 and 8 are:
5
6
7
8

---------------------------------
Process exited after 7.272 seconds with return value 0
Press any key to continue . . .
```

File   Edit   Search   View   Project   Execute   AStyle   Window   Help

TDM-GCC 4.9.2 64-bit Debug

(globals)

class 1.cpp   class 2.cpp   class 3.cpp   class 4.cpp   class 5.cpp   class 6.cpp   class 7.cpp   class 8.cpp

```c
1    #include <stdio.h>
2
3    int isPerfect(int num);
4
5    int main() {
6        int start, end, i;
7        printf("192224166-sainadh");
8        printf("Enter the start of the interval: ");
9        scanf("%d", &start);
10       printf("Enter the end of the interval: ");
11       scanf("%d", &end);
12       printf("Perfect numbers between %d and %d are: ", start, end);
13       for(i = start; i <= end; i++) {
14           if(isPerfect(i)) {
15               printf("%d ", i);
16           }
17       }
18       return 0;
19   }
20
21   int isPerfect(int num) {
22       int i, sum = 0;
23       for(i = 1; i <= num/2; i++) {
24           if(num % i == 0) {
25               sum += i;
26           }
27       }
28       if(sum == num) {
29           return 1;
30       } else {
31           return 0;
32       }
```

C:\Users\Admin\OneDrive\Do

```
192224166-sainadhEnter the start of the interval: 6
Enter the end of the interval: 9
Perfect numbers between 6 and 9 are: 6
------------------------------------
Process exited after 4.966 seconds with return value 0
Press any key to continue . . .
```

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\class 9.exe
- Output Size: 150.369140625 KiB
- Compilation Time: 0.42s
```

Line: 18   Col: 14   Sel: 0   Lines: 33   Length: 706   Insert   Done parsing in 0.016 seconds

Q Search

7:38 PM
30-Mar-23

File Edit Search View Project Execute AStyle Window Help

(globals)

TDM-GCC 4.9.2 64-bit Debug

Project Classes Debug

class 1.cpp   class 2.cpp   class 3.cpp   class 4.cpp   class 5.cpp   class 6.cpp

```c
1    #include <stdio.h>
2
3
4    int isPrime(int num){
5        printf("192224166-sainadh");
6
7        public int __cdecl printf (const char * __restrict__ _Format, ...)
8            if (num % i == 0) {
9                return 0;
10           }
11       }
12       return 1;
13   }
14
15
16   void findPrimes(int start, int end) {
17       int i, flag;
18       printf("Prime numbers between %d and %d are: ", start, end);
19       for (i = start; i <= end; i++) {
20           flag = isPrime(i);
21           if (flag == 1) {
22               printf("%d ", i);
23           }
24       }
25       printf("\n");
26   }
27
28
29   int main() {
30       int start, end;
31       printf("Enter the starting number: ");
32       scanf("%d", &start);
```

C:\Users\Admin\OneDrive\Do

```
Enter the starting number: 2
Enter the ending number: 8
Prime numbers between 2 and 8 are: 192224166-sain
adh2 192224166-sainadh3 192224166-sainadh19222416
6-sainadh5 192224166-sainadh192224166-sainadh7 19
2224166-sainadh

---------------------------------
Process exited after 5.223 seconds with return va
lue 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\class 6.exe
- Output Size: 151.0732421875 KiB
- Compilation Time: 0.36s

Abort Compilation

Shorten compiler paths

Line: 5   Col: 30   Sel: 0   Lines: 37   Length: 735   Insert   Done parsing in 0.016 seconds

Q Search

7:29 PM
30-Mar-23

File Edit Search View Project Execute AStyle Window Help

(globals)

Project Classes Debug   class 1.cpp class 2.cpp class 3.cpp class 4.cpp class 5.cpp

```c
1    #include <stdio.h>
2    #include <math.h>
3
4
5 ┌  int isPrime(int num) {
6         printf("192224166-sainadh");
7         int i;
8         if(num == 1 || num == 0) return 0;
9 ┌      for(i = 2; i <= sqrt(num); i++) {
10            if(num % i == 0) return 0;
11        }
12        return 1;
13 └  }
14
15
16 ┌ int isArmstrong(int num) {
17        int digit, sum = 0, temp = num;
18 ┌      while(temp != 0) {
19            digit = temp % 10;
20            sum += digit * digit * digit;
21            temp /= 10;
22        }
23        if(num == sum) return 1;
24        else return 0;
25 └  }
26
27
28 ┌ int isPerfect(int num) {
29        int i, sum = 0;
30 ┌      for(i = 1; i <= num/2; i++) {
31            if(num % i == 0) sum += i;
32        }
```

Console output:

```
Enter a positive integer: 8
192224166-sainadh8 is not a prime number
8 is not an Armstrong number
8 is not a Perfect number

-----------------------------------
Process exited after 1.499 seconds with return value 0
Press any key to continue . . .
```

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\class 5.exe
- Output Size: 157.701171875 KiB
- Compilation Time: 0.36s
```

Line: 6   Col: 33   Sel: 0   Lines: 53   Length: 1195   Insert   Done parsing in 0.063 seconds

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

(globals)

TDM-GCC 4.9.2 64-bit Debug

Project   Classes   Debug

class 1.cpp   class 2.cpp   class 3.cpp   class 4.cpp

```c
1    #include <stdio.h>
2
3
4    int checkEvenOdd(int num) {
5        printf("192224166-sainadh");
6        if (num % 2 == 0)
7            return 0;
8        else
9            return 1;
10   }
11
12   int main() {
13       int num;
14
15
16       printf("Enter a number: ");
17       scanf("%d", &num);
18
19
20       if (checkEvenOdd(num) == 0)
21           printf("%d is even.", num);
22       else
23           printf("%d is odd.", num);
24
25       return 0;
26   }
```

C:\Users\Admin\OneDrive\Dc

Enter a number: 8
192224166-sainadh8 is even.

Process exited after 2.599 seconds with return value 0
Press any key to continue . . .

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\class 4.exe
- Output Size: 149.873046875 KiB
- Compilation Time: 0.38s

Line: 5   Col: 6   Sel: 0   Lines: 26   Length: 398   Insert   Done parsing in 0.031 seconds

Q Search

7:18 PM
30-Mar-23

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

(globals)

Project   Classes   Debug   class 1.cpp   class 2.cpp   class 3.cpp

```c
1      #include <stdio.h>
2
3      int find_max(int arr[], int size);
4      int find_min(int arr[], int size);
5
6      int main()
7  ┌  {
8          int n, i, max, min;
9          printf("192224166-sainadh");
10         printf("Enter the number of elements: ");
11         scanf("%d", &n);
12
13         int arr[n];
14
15         printf("Enter %d elements:\n", n);
16         for(i = 0; i < n; i++)
17  ┌      {
18             scanf("%d", &arr[i]);
19  └      }
20
21         max = find_max(arr, n);
22         min = find_min(arr, n);
23
24         printf("Maximum element = %d\n", max);
25         printf("Minimum element = %d\n", min);
26
27         return 0;
28  └  }
29
30      int find_max(int arr[], int size)
31  ┌  {
32         int i, max = arr[0];
```

C:\Users\Admin\OneDri   ✕   +   ∨

```
192224166-sainadhEnter the number of elements
: 4
Enter 4 elements:
5
4
6
7
Maximum element = 7
Minimum element = 4

--------------------------------
Process exited after 5.375 seconds with retur
n value 0
Press any key to continue . . .
```

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\class 3.exe
- Output Size: 151.40234375 KiB
- Compilation Time: 0.50s
```

Line: 9   Col: 33   Sel: 0   Lines: 58   Length: 999   Insert   Done parsing in 0.016 seconds

Q Search

7:15 PM
30-Mar-23

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

(globals)

TDM-GCC 4.9.2 64-bit Debug

Project   Classes   Debug   class 1.cpp   class 2.cpp

```cpp
 5        float find_diameter(float radius);
 6        float find_circumference(float radius);
 7        float find_area(float radius);
 8
 9   □  int main() {
10            float radius, diameter, circumference, area;
11            printf("192224166-sainadh");
12            printf("Enter the radius of the circle: ");
13            scanf("%f", &radius);
14
15            diameter = find_diameter(radius);
16            circumference = find_circumference(radius);
17            area = find_area(radius);
18
19            printf("Diameter of the circle is: %.2f\n", diameter);
20            printf("Circumference of the circle is: %.2f\n", circumference);
21            printf("Area of the circle is: %.2f\n", area);
22
23            return 0;
24        }
25
26   □  float find_diameter(float radius) {
27            return 2 * radius;
28        }
29
30   □  float find_circumference(float radius) {
31            return 2 * PI * radius;
32        }
33
34   □  float find_area(float radius) {
35            return PI * radius * radius;
36        }
```

C:\Users\Admin\OneDrive\Do

```
192224166-sainadhEnter the radius of the circle: 5
Diameter of the circle is: 10.00
Circumference of the circle is: 31.42
Area of the circle is: 78.54

-------------------------------------
Process exited after 3.885 seconds with return value
 0
Press any key to continue . . .
```

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\class 2.exe
- Output Size: 150.4814453125 KiB
- Compilation Time: 0.41s
```

Line: 11   Col: 33   Sel: 0   Lines: 36   Length: 868   Insert   Done parsing in 0.016 seconds

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

(globals)

TDM-GCC 4.9.2 64-bit Debug

Project   Classes   Debug   class 1.cpp

```
1     #include<stdio.h>
2     #include<conio.h>
3
4     int Calculate_Cube(int Number)
5     {
6         printf("192224166-sainadh");
7         return Number * Number * Number;
8     }
9     int main()
10    {
11        int number, cube;
12
13        printf(" \n Please Enter any Number : ");
14        scanf("%d", &number);
15
16        cube = Calculate_Cube(number);
17
18        printf("\n Cube of a given number %d is =  %d", number, cube);
19
20        getch();
21    }
```

C:\Users\Admin\OneDrive\Do

```
 Please Enter any Number : 9
192224166-sainadh
 Cube of a given number 9 is =   729
```

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\class 1.exe
- Output Size: 151.044921875 KiB
- Compilation Time: 0.52s
```

Line: 6   Col: 33   Sel: 0   Lines: 21   Length: 389   Insert   Done parsing in 0.031 seconds

6:55 PM
30-Mar-23