

--- Date : 03-03-2021

Roll: 2019115126

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Date : 03-march 2021

- 1) Create a class named Person with attributes name, id, age and salary with proper member functions accept and display. Create five person objects and find out the name of the person getting higher salary.**

**Code: “maintrails.cpp”**

```
#include<iostream>
#include <string>
#include "onetrialsc.h"
using namespace std;

int main()
{
    person p[5];
    int a;
    string n;
    double s;
    int max = -1, maxi = -1, i;

    for (i = 0; i < 5; i++)
    {
```

```

cout << "\n\n\n enter age " << endl;
cin >> a;
p[i].putage(a);
cout << "\n enter salary " << endl;
cin >> s;
p[i].putsalary(s);
cout << "\n enter name " << endl;
cin >> n;
p[i].putname(n);
cout << "\n\n age: " << p[i].getage() << "\n salary: " << p[i].getsalary() << "\n name: "
<< p[i].getname() << endl;

if (s > max)
{
    maxi = i;
    max = s;
}

}

i = maxi;

cout << "\n \n person with highest salary \n";
cout << "\n\n age:" << p[i].getage() << "\n salary" << p[i].getsalary() << "\n name:" <<
p[i].getname() << endl;

return 0;
}

```

**Code: “onetrials.cpp”**

```
#include "onetrialsc.h"
#include<iostream>
#include <string>
using namespace std;

void person::putname(string n)
{
    name = n;
}

void person::putid(int i)
{
    id = i;
}

int person::getid()
{
    return id;
}

void person::putage(int a)
{
    age = a;
}

int person::getage()
{
    return age;
}
```

```

string person::getname()
{
    return name;
}

void person::putsalary(double w)
{
    salary = w;
}

double person::getsalary()
{
    return salary;
}

```

**Code : “onetrialsc.h”**

```

#include<iostream>
#include<string>
using namespace std;

#ifndef ONETRIALSC_H
#define ONETRIALSC_H

class person {
    string name;
    int id;
    int age;
    double salary;
public:

```

```
void putname(string n);
string getname();
void putage(int a);
int getage();
void putid(int i);
int getid();
void putsalary(double w);
double getsalary();

};

#endif
```

screenschot :

# Project1 - [Project1.dev] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project1

maintrials.cpp  
onetrialsc.cpp  
onetrialsc.h

maintrials.cpp onetrialsc.cpp onetrialsc.h

```
1 #include "onetrialsc.h"
2 #include<iostream>
3 #include <string>
4 using namespace std;
5
6 void person::putname(string n)
7 {
8     name = n;
9 }
10
11 void person::putid(int i)
12 {
13     id = i;
14 }
15
16 int person::getid()
17 {
18     return id;
19 }
20
21 void person::putage(int a)
22 {
23     age = a;
24 }
25
26 int person::getage()
27 {
28     return age;
29 }
30
31 string person::getname()
32 {
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\03 march\1st t  
- Output Size: 1.9700984954834 MiB  
- Compilation Time: 0.47s

Line: 2

Col: 19

Sel: 0

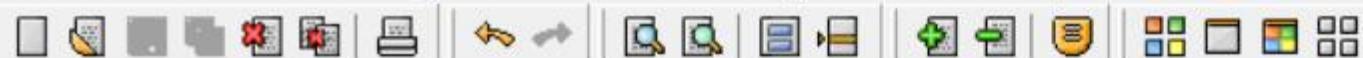
Lines: 46

Length: 478

Insert

# Project1 - [Project1.dev] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project1

maintrials.cpp  
onetrialsc.cpp  
onetrialsc.h

```
maintrials.cpp onetrialsc.cpp onetrialsc.h
15 {
16
17
18
19
20
21 cout << "\n\n\n enter age " << endl;
22 cin >> a;
23 p[i].putage(a);
24 cout << "\n enter salary " << endl;
25 cin >> s;
26 p[i].putsalary(s);
27 cout << "\n enter name " << endl;
28 cin >> n;
29 p[i].putname(n);
30 cout << "\n\n age: " << p[i].getage();
31
32 if (s > max)
33 {
34     maxi = i;
35     max = s;
36 }
37 i = maxi;
38 cout << "\n \n person with highest salary ";
39 cout << "\n\n age:" << p[i].getage() << endl;
40
41
42 return 0;
43
44
45 }
46 }
```

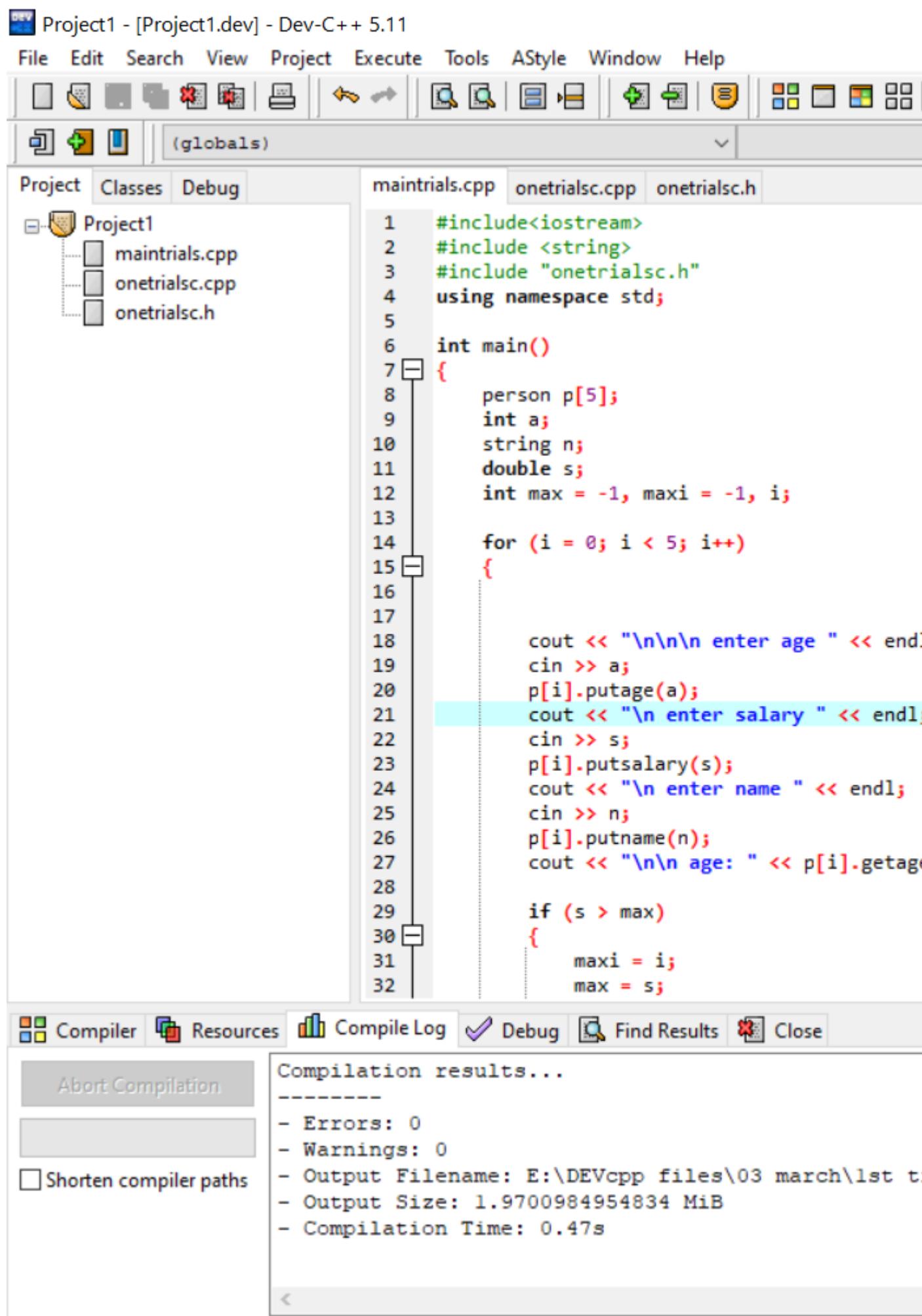
Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

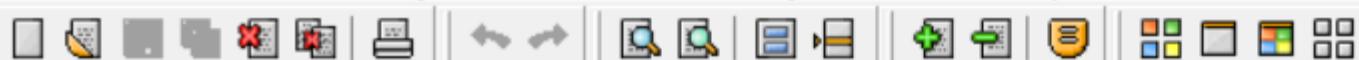
Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\03 march\1st test  
- Output Size: 1.9700984954834 MiB  
- Compilation Time: 0.47s



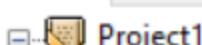
# Project1 - [Project1.dev] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug



Project1

maintrials.cpp

onetrialsc.cpp

onetrialsc.h

maintrials.cpp onetrialsc.cpp onetrialsc.h

```
1 #include<iostream>
2 #include<string>
3 using namespace std;
4
5 #ifndef ONETRIALSC_H
6 #define ONETRIALSC_H
7
8
9 class person {
10     string name;
11     int id;
12     int age;
13     double salary;
14 public:
15     void putname(string n);
16     string getname();
17     void putage(int a);
18     int getage();
19     void putid(int i);
20     int getid();
21     void putsalary(double w);
22     double getsalary();
23
24 }
25
26
27
28 #endif
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----

- Errors: 0
- Warnings: 0
- Output Filename: E:\DEVcpp files\03 march\1st t
- Output Size: 1.9700984954834 MiB
- Compilation Time: 0.47s

Line: 4

Col: 1

Sel: 0

Lines: 28

Length: 379

Insert



E:\DEVcpp files\03 march\1st trials\Project1.exe

enter age

1

enter salary

57

enter name

joe

age: 1

salary: 57

name: joe

enter age

6

enter salary

7899

enter name

tay

age: 6

salary: 7899

name: tay

enter age

7

enter salary

7899

enter name

tylor

age: 7

salary: 7899

name: tylor

E:\DEVcpp files\03 march\1st trials\Project1.exe

enter salary

6532

enter name

yui

age: 8

salary: 6532

name: yui

enter age

6

enter salary

78

enter name

tran

age: 6

salary: 78

name: tran

person with highest salary

age:6

salary7899

name:tay

-----  
Process exited after 53.41 seconds with return value 0

Press any key to continue . . . ■

**2)Create a class for Distance having feet and inches as attributes. Try to give the sum of two distance objects**

**Code : “h.cpp”**

```
#include <iostream>
#include "h.h"
using namespace std;

int Distance::count = 0;

void Distance::inputf(int f)
{
    feet = f;
}

void Distance::inputi(int i)
{
    while (i > 11)
    {
        i = i - 12;
        feet += 1;
    }
    inches = i;
}

int Distance::outputf()
```

```
    return feet;
}

int Distance::outputi()
{
    return inches;
}
```

**Code :“h.h”**

```
#ifndef H_H
#define H_H

class Distance{
    static int count;

    int feet;
    int inches;

public:
    //Distance(int=0, int=0);
    void inputf(int);
    void inputi(int);
    int outputf();
    int outputi();
```

```
};
```

```
#endif
```

**Code :“main.cpp”**

```
#include <iostream>
```

```
#include <string>
```

```
#include "h.h"
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    Distance p1,p2,p3;
```

```
    int f=0;
```

```
    int inch=0,fsum=0,inchsum=0;
```

```
    int s=0;
```

```
    cout << "\n\n\n enter feet " << endl;
```

```
    cin >> f; fsum += f;
```

```
    p1.inputf(f);
```

```
    cout << "\n enter inches" << endl;
```

```
    cin >> inch; inchsum += inch;
    p1.inputi(inch);

    cout << "\n\n feets: " << p1.outputf() << "\n inches : " << p1.outputi() <<
endl;

    cout << "\n\n\n enter feet " << endl;
    cin >> f; fsum += f;
    p2.inputf(f);

    cout << "\n enter inches" << endl;
    cin >> inch; inchsum += inch;
    p2.inputi(inch);

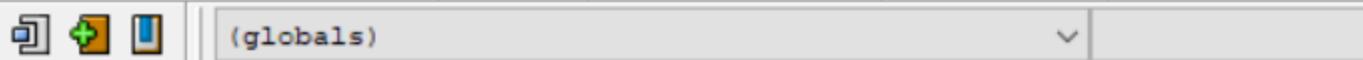
    cout << "\n\n feets: " << p2.outputf() << "\n inches : " << p2.outputi() << endl;

    p3.inputf(fsum);
    p3.inputi(inchsum);
    cout << "\n sum \n ";
    cout << "\n\n feets: " << p3.outputf() << "\n inches : " << p3.outputi() << endl;

    return 0;
}
```

# Project1 - [Project1.dev] - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



Project Classes Debug

Project1  
h.cpp  
h.h  
main.cpp

main.cpp h.h h.cpp

```
1  ifndef H_H
2  define H_H
3
4  class Distance{
5      static int count;
6
7      int feet;
8      int inches;
9
10 public:
11     //Distance(int=0, int=0);
12     void inputf(int);
13     void inputi(int);
14     int outputf();
15     int outputi();
16
17
18
19
20
21
22 }
23
24 #endif
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\03 march\2nd t  
- Output Size: 1.85313701629639 MiB  
- Compilation Time: 0.11s

Line: 24

Col: 7

Sel: 0

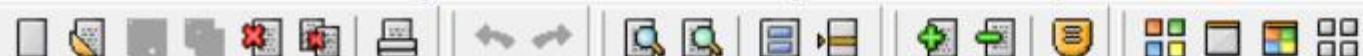
Lines: 24

Length: 235

Insert

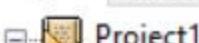
# Project1 - [Project1.dev] - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug



h.cpp

h.h

main.cpp

main.cpp

h.h

h.cpp

```
19 cout << "\n\n\n enter feet " << endl;
20 cin >> f; fsum += f;
21 p1.inputf(f);
22
23 cout << "\n enter inches" << endl;
24 cin >> inch; inchsum += inch;
25 p1.inputi(inch);
26
27 cout << "\n\n feets: " << p1.outputf();
28
29
30 cout << "\n\n\n enter feet " << endl;
31 cin >> f; fsum += f;
32 p2.inputf(f);
33
34 cout << "\n enter inches" << endl;
35 cin >> inch; inchsum += inch;
36 p2.inputi(inch);
37
38 cout << "\n\n feets: " << p2.outputf();
39
40
41
42 p3.inputf(fsum);
43 p3.inputi(inchsum);
44 cout << "\n sum \n ";
45 cout << "\n\n feets: " << p3.outputf();
46
47
48
49 return 0;
50
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\03 march\2nd t  
- Output Size: 1.85313701629639 MiB  
- Compilation Time: 0.11s

Line: 4

Col: 15

Sel: 0

Lines: 52

Length: 898

Insert

# Project1 - [Project1.dev] - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project1  
h.cpp  
h.h  
main.cpp

main.cpp h.h h.cpp

```
1 #include <iostream>
2 #include <string>
3 #include "h.h"
4 using namespace std;
5
6 int main()
7 {
8     Distance p1,p2,p3;
9
10
11     int f=0;
12     int inch=0,fsum=0,inchsum=0;
13
14     int s=0;
15
16
17
18
19
20     cout << "\n\n\n enter feet " << endl;
21     cin >> f; fsum += f;
22     p1.inputf(f);
23
24     cout << "\n enter inches" << endl;
25     cin >> inch; inchsum += inch;
26     p1.inputi(inch);
27
28     cout << "\n\n feets: " << p1.output();
29
30
31
32     cout << "\n\n\n enter feet " << endl;
33     cin >> f; fsum += f;
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----

- Errors: 0
- Warnings: 0
- Output Filename: E:\DEVcpp files\03 march\2nd t
- Output Size: 1.85313701629639 MiB
- Compilation Time: 0.11s

Line: 4

Col: 15

Sel: 0

Lines: 52

Length: 898

Insert

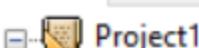
# Project1 - [Project1.dev] - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug



h.cpp

h.h

main.cpp

main.cpp h.h h.cpp

```
1 #include <iostream>
2 #include "h.h"
3 using namespace std;
4
5
6 int Distance::count = 0;
7
8 void Distance::inputf(int f)
9 {
10     feet = f;
11 }
12 void Distance::inputi(int i)
13 {
14     while (i > 11)
15     {
16         i = i - 12;
17         feet += 1;
18     }
19     inches = i;
20 }
21 /*
22 Distance::Distance(int i,int f)
23 {
24     feet = f;
25     inches = i;
26     count++;
27     cout << "constructor called " << count
28 }
29 */
30
31 int Distance::outputf()
32 {
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\03 march\2nd t  
- Output Size: 1.85313701629639 MiB  
- Compilation Time: 0.11s

Line: 38

Col: 2

Sel: 0

Lines: 38

Length: 481

Insert



E:\DEVcpp files\03 march\2nd trials 2\Project1.exe

enter feet

3

enter inches

6

feet: 3

inches : 6

enter feet

6

enter inches

20

feet: 7

inches : 8

sum

feet: 11

inches : 2

-----  
Process exited after 12.46 seconds with return value 0

Press any key to continue . . . ■

**3) Create a class named Fibonacci which would generate proper Fibonacci series when its display function has been invoked.**

**Code “Fibonacci.cpp”**

```
#include "Fibonacci.h"

#include<iostream>
using namespace std;

Fibonacci::Fibonacci()
{
    f = 0, s= 1, sum = 0,terms=0;
}

void Fibonacci::fibfunc(int n)

{
    terms=n;int k=2;//as i already initialized first 2
    int fi=f,se=s;
    cout<<"\n the fibonacci series is \n "<<fi<<" "<<se<<" ";
    sum = fi + se;
    while(k < n)
    {
        cout<<sum<<" ";
        fi = se;
        se = sum;
        sum = fi + se;
        k++;
    }
}
```

```
}
```

```
}
```

### **Code “main.cpp”**

```
#include <iostream>
#include "Fibonacci.h"
using namespace std;

int main()

{
    Fibonacci f;
    int n=0;

    cout<<"\n enter no.of terms you need \n "; cin>>n;
    f.fibfunc(n);

    return 0;
}
```

### **Code : “Fibonacci.h”**

```
#ifndef FIBONACCI_H
#define FIBONACCI_H

class Fibonacci
{
```

```
int f ,s,sum,terms;  
public:  
    Fibonacci();  
    void fibfunc(int);  
};  
  
#endif
```

# Project2 - [Project2.dev] - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project2  
Fibonacci.cpp  
Fibonacci.h  
main.cpp

main.cpp Fibonacci.h Fibonacci.cpp

```
1 #ifndef FIBONACCI_H
2 #define FIBONACCI_H
3
4 class Fibonacci
5 {
6     int f ,s,sum,terms;
7     public:
8         Fibonacci();
9         void fibfunc(int);
10    };
11
12 #endif
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\03 march\3rd t  
- Output Size: 1.85387802124023 MiB  
- Compilation Time: 0.13s

Line: 6

Col: 23

Sel: 0

Lines: 12

Length: 148

Insert

# Project2 - [Project2.dev] - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project2  
Fibonacci.cpp  
Fibonacci.h  
main.cpp

main.cpp Fibonacci.h Fibonacci.cpp

```
1 #include <iostream>
2 #include "Fibonacci.h"
3 using namespace std;
4
5 /* run this program using the console pause */
6
7 int main()
8 {
9     Fibonacci f;
10    int n=0;
11
12    cout<<"\n enter no.of terms you want ";
13    f.fibfunc(n);
14
15
16
17    return 0;
18 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\03 march\3rd term\Fibonacci\Fibonacci.exe  
- Output Size: 1.85387802124023 MiB  
- Compilation Time: 0.13s

Line: 10

Col: 14

Sel: 0

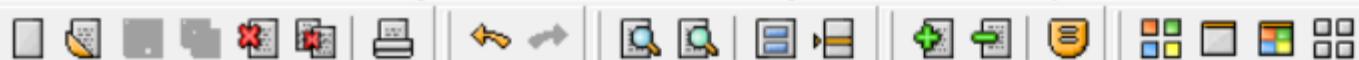
Lines: 18

Length: 356

Insert

# Project2 - [Project2.dev] - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project2  
Fibonacci.cpp  
Fibonacci.h  
main.cpp

main.cpp Fibonacci.h Fibonacci.cpp

```
1 #include "Fibonacci.h"
2
3
4 #include<iostream>
5 using namespace std;
6
7 Fibonacci::Fibonacci()
8 {
9     f = 0, s= 1, sum = 0,terms=0;
10 }
11
12
13 void Fibonacci::fibfunc(int n)
14 {
15     terms=n;int k=2;//as i already init
16     int fi=f,se=s;
17     cout<<"\n the fibonacci series is ";
18     sum = fi + se;
19     while(k < n)
20     {
21         cout<<sum<<" ";
22         fi = se;
23         se = sum;
24         sum = fi + se;
25         k++;
26     }
27
28
29
30
31 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\03 march\3rd t  
- Output Size: 1.85387802124023 MiB  
- Compilation Time: 0.13s

Line: 16

Col: 59

Sel: 0

Lines: 31

Length: 516

Insert



E:\DEVcpp files\03 march\3rd trials\Project2.exe

enter no.of terms you need

6

the fibonacci series is

0 1 1 2 3 5

-----  
Process exited after 2.233 seconds with return value 0

Press any key to continue . . . ■

**4)Create a class named Student with name, age and marks. Find out the students having top 3 marks.**

**“main.cpp”**

```
//Create a class named Student with name, age and marks. Find out the students having top 3 marks.
```

```
#include<iostream>
#include <string>
#include "Student.h"
using namespace std;
```

```
int main()
{
    Student p[5];
    int a;
    string n;

    int i;int marks;

    for (i = 0; i < 5; i++)
    {
        cout << "\n\n\n enter age " << endl;
        cin >> a;
```

```

p[i].putage(a);

cout << "\n enter marks " << endl;

cin >> marks;

p[i].putmarks(marks);

cout << "\n enter name " << endl;

cin >> n;

p[i].putname(n);

cout << "\n\n age: " << p[i].getage() << "\n marks: " << p[i].getmarks() << "\n name: "
<< p[i].getname() << endl;

}

int temp=-1;

int fi=-1,se=-1 ,th=-1,j=0,k=0;

for (i = 0; i < 5 ; i++)
{
    if (p[i].getmarks() > fi)
        {fi = p[i].getmarks();temp=i;}
}

cout<<"\n\n "<<p[temp].getname()<<" got highest mark of "<<fi;

```

```
for (j = 0; j < 5 ; j++)
{
    if (p[j].getmarks() > se && p[j].getmarks() < fi)
        {se = p[j].getmarks();temp=j; }

}

cout<<"\n\n "<<p[temp].getname()<<" got second highest mark of "<<se;

for ( k = 0; k < 5 ; k++)
{
    if (p[k].getmarks() > th && p[k].getmarks() < se)
        {th = p[k].getmarks();temp=k; }

}

cout<<"\n\n "<<p[temp].getname()<<" got third highest mark of "<<th;

return 0;
```

```
}
```

**Code : “Student.h”**

```
#include<iostream>
#include<string>
using namespace std;
#ifndef STUDENT_H
#define STUDENT_H

class Student
{
    string name;
    int id;
    int age;
    int marks;

public:
    void putname(string n);
    string getname();
    void putage(int a);
    int getage();
    void putid(int i);
    int getid();
    void putmarks(int w);
    int getmarks();
};

#endif
```

**Code : “Student.cpp”**

```
#include "Student.h"
#include<iostream>
#include <string>
using namespace std;

void Student::putname(string n)
{
    name = n;
}

void Student::putid(int i)
{
    id = i;
}

int Student::getid()
{
    return id;
}

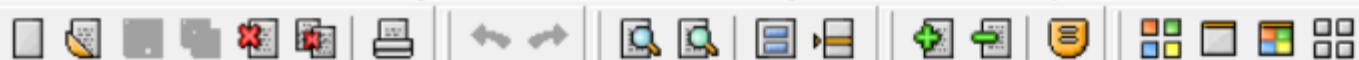
void Student::putage(int a)
{
    age = a;
}

int Student::getage()
```

```
{  
    return age;  
}  
  
string Student::getname()  
{  
    return name;  
}  
  
void Student::putmarks(int w)  
{  
    marks = w;  
}  
  
int Student::getmarks()  
{  
    return marks;  
}
```

# Project6 - [Project6.dev] - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project6  
Student.cpp  
Student.h  
main.cpp

main.cpp Student.h Student.cpp

```
1 #include<iostream>
2 #include<string>
3 using namespace std;
4 #ifndef STUDENT_H
5 #define STUDENT_H
6
7 class Student
8 {
9     string name;
10    int id;
11    int age;
12    int marks;
13 public:
14     void putname(string n);
15     string getname();
16     void putage(int a);
17     int getage();
18     void putid(int i);
19     int getid();
20     void putmarks(int w);
21     int getmarks();
22 };
23
24 #endif
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\03 march\4th t  
- Output Size: 1.88066577911377 MiB  
- Compilation Time: 0.70s

Line: 20

Col: 26

Sel: 0

Lines: 24

Length: 352

Insert

# Project6 - [Project6.dev] - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project6  
Student.cpp  
Student.h  
main.cpp

main.cpp

Student.h

Student.cpp

```
56 {  
57     if (p[j].getmarks() > se && p[j].  
58         {se = p[j].getmarks();temp=j;}  
59     }  
60     cout<<"\n\n    "<<p[temp].getname()<<  
61     cout<<"\n\n    "<<p[temp].getname()<<  
62     cout<<"\n\n    "<<p[temp].getname()<<  
63     cout<<"\n\n    "<<p[temp].getname()<<  
64     cout<<"\n\n    "<<p[temp].getname()<<  
65     for ( k = 0; k < 5 ; k++)  
66     {  
67         if (p[k].getmarks() >  
68     }  
69     cout<<"\n\n    "<<p[temp].getname()<<  
70     cout<<"\n\n    "<<p[temp].getname()<<  
71     cout<<"\n\n    "<<p[temp].getname()<<  
72     cout<<"\n\n    "<<p[temp].getname()<<  
73     cout<<"\n\n    "<<p[temp].getname()<<  
74     cout<<"\n\n    "<<p[temp].getname()<<  
75     cout<<"\n\n    "<<p[temp].getname()<<  
76     cout<<"\n\n    "<<p[temp].getname()<<  
77     cout<<"\n\n    "<<p[temp].getname()<<  
78     cout<<"\n\n    "<<p[temp].getname()<<  
79     cout<<"\n\n    "<<p[temp].getname()<<  
80     cout<<"\n\n    "<<p[temp].getname()<<  
81     return 0;  
82 }  
83  
84  
85 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\03 march\4th t  
- Output Size: 1.88066577911377 MiB  
- Compilation Time: 0.70s

Line: 74

Col: 55

Sel: 0

Lines: 87

Length: 1552

Insert



Project6 - [Project6.dev] - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug



Project6

Student.cpp

Student.h

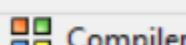
main.cpp

main.cpp

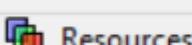
Student.h

Student.cpp

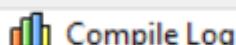
```
36 }  
37  
38  
39  
40 int temp=-1;  
41 int fi=-1,se=-1 ,th=-1,j=0,k=0;  
42  
43 for ( i = 0; i < 5 ; i++)  
44 {  
45     if (p[i].getmarks() > fi)  
46         {fi = p[i].getmarks();temp=i;}  
47  
48 cout<<"\n\n" <<p[temp].getname()<<"  
49  
50  
51  
52  
53  
54  
55 for ( j = 0; j < 5 ; j++)  
56 {  
57     if (p[j].getmarks() > se && p[j].getmarks() > th)  
58         {se = p[j].getmarks();temp=j;}  
59  
60 cout<<"\n\n" <<p[temp].getname()<<"  
61  
62  
63  
64  
65 for ( k = 0; k < 5 ; k++)  
66 {  
67 }
```



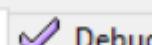
Compiler



Resources



Compile Log



Debug



Find Results



Close

Abort Compilation

 Shorten compiler paths

Compilation results...

-----

- Errors: 0
- Warnings: 0
- Output Filename: E:\DEVcpp files\03 march\4th t
- Output Size: 1.88066577911377 MiB
- Compilation Time: 0.70s

Line: 74

Col: 55

Sel: 0

Lines: 87

Length: 1552

Insert

# Project6 - [Project6.dev] - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project6  
Student.cpp  
Student.h  
main.cpp

main.cpp Student.h Student.cpp

```
1 //Create a class named Student with name,
2
3 #include<iostream>
4 #include <string>
5 #include "Student.h"
6 using namespace std;
7
8
9
10 int main()
11 {
12     Student p[5];
13     int a;
14     string n;
15
16     int i;int marks;
17
18     for (i = 0; i < 5; i++)
19     {
20
21
22         cout << "\n\n\n enter age " << endl;
23         cin >> a;
24         p[i].putage(a);
25         cout << "\n enter marks " << endl;
26         cin >> marks;
27         p[i].putmarks(marks);
28         cout << "\n enter name " << endl;
29         cin >> n;
30         p[i].putname(n);
31         cout << "\n\n age: " << p[i].getage();
32 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\03 march\4th t...  
- Output Size: 1.88066577911377 MiB  
- Compilation Time: 0.70s

Line: 74

Col: 55

Sel: 0

Lines: 87

Length: 1552

Insert

# Project6 - [Project6.dev] - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project6  
Student.cpp  
Student.h  
main.cpp

main.cpp Student.h Student.cpp

```
1 #include "Student.h"
2 #include<iostream>
3 #include <string>
4 using namespace std;
5
6 void Student::putname(string n)
7 {
8     name = n;
9 }
10
11 void Student::putid(int i)
12 {
13     id = i;
14 }
15
16 int Student::getid()
17 {
18     return id;
19 }
20
21 void Student::putage(int a)
22 {
23     age = a;
24 }
25
26 int Student::getage()
27 {
28     return age;
29 }
30
31 string Student::getname()
32 {
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\03 march\4th t  
- Output Size: 1.88066577911377 MiB  
- Compilation Time: 0.70s

Line: 41

Col: 4

Sel: 0

Lines: 47

Length: 475

Insert



E:\DEVcpp files\03 march\4th trials\Project6.exe

enter age

4

enter marks

76

enter name

yui

age: 4

marks: 76

name: yui

enter age

7

enter marks

89

enter name

yomo

age: 7

marks: 89

name: yomo

enter age

8

enter marks

89

enter name

tom

age: 8

marks: 89

name: tom

E:\DEVcpp files\03 march\4th trials\Project6.exe

enter age

7

enter marks

78

enter name

john

age: 7

marks: 78

name: john

enter age

8

enter marks

95

enter name

smith

age: 8

marks: 95

name: smith

smith got highest mark of 95

yomo got second highest mark of 89

john got third highest mark of 78

-----  
Process exited after 44.75 seconds with return value 0

Press any key to continue . . .

**5)Create a class named Book with proper ID, Author Name, Publisher name, price and year as its data members. Write suitable member functions to collect the details of various books. Find out the number of books having the same price.**

Code : “main.cpp”

```
#include "book.h"
```

```
#include<iostream>
```

```
#include <string>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    Book b[5];
```

```
    string an;
```

```
    string pn;
```

```
    double p;
```

```
    int i,id,y;
```

```
for (i = 0; i < 5; i++)
```

```
{
```

```
    cout<<"\n \n enter id \n";
```

```
    cin>>id;
```

```
    b[i].putid(id);
```

```
    cout << "\n enter year " << endl;
```

```
    cin >> y;
```

```
    b[i].putyear(y);
```

```
    cout << "\n enter price " << endl;
```

```
    cin >> p;
```

```
    b[i].putprice(p);
```

```
    cout << "\n enter author name " << endl;
```

```
    cin >> an;
```

```
    b[i].putAname(an);
```

```
    cout << "\n enter publisher name " << endl;
```

```
    cin >> pn;
```

```
    b[i].putPname(pn);
```

```
    cout << "\n\n year: " << b[i].getyear()<< "\n\n id : " << b[i].getid() << "\n
price: " << b[i].getprice() << "\n author name: " << b[i].getAname()<< "\n publisher name: "
<< b[i].getPname() << endl;
```

```
}
```

```
int visited [5]={};int count,j;
```

```
for (i=0;i<5;i++)
```

```
{
```

```
if (visited[i]>0)
```

```
    continue;
```

```
count=0;
```

```
for (j=i+1;j<5;j++)
```

```
{
```

```
    if(b[j].getprice()==b[i].getprice())
```

```
{
```

```
        count++;
```

```
        visited[j]++;
    }
```

```
}
```

```
cout<<"\n\n "<<count+1<<" books have price "<<b[i].getprice()//count +1
```

```
as we initialized it to 0
```

```
}
```

```
return 0;
```

```
}
```

**Code: “book.h”**

```
//Create a class named Book with proper ID, Author Name, Publisher name, price and year as its  
data members.  
  
// Write suitable member functions to collect the details of various books. Find out the number of  
books having the same price.
```

```
#include<iostream>  
  
#include<string>  
using namespace std;  
  
#ifndef BOOK_H  
#define BOOK_H  
  
class Book  
{  
  
    string Aname;  
    string Pname;  
    int id;  
    int year;  
    double price;  
  
public:  
    void putAname(string);  
    string getAname();  
  
    void putPname(string);  
    string getPname();  
  
    void putid(int);
```

```
int getid();

void putyear(int);
int getyear();

void putprice(double);
double getprice();

};

#endif
```

**Code: “book.cpp”**

```
#include "book.h"

#include<iostream>
#include <string>
using namespace std;

void Book::putAname(string an)
{
    Aname = an;
}

void Book::putPname(string pn)
{
    Pname = pn;
}

void Book::putid(int i)
```

```
{  
    id = i;  
}  
  
int Book::getid()  
{  
    return id;  
}  
  
void Book::putyear(int y)  
{  
    year = y;  
}  
  
int Book::getyear()  
{  
    return year;  
}  
  
string Book::getAname()  
{  
    return Aname;  
}  
  
string Book::getPname()  
{  
    return Pname;  
}  
  
void Book::putprice(double p)  
{  
    price= p;
```

```
}
```

```
double Book::getprice()
```

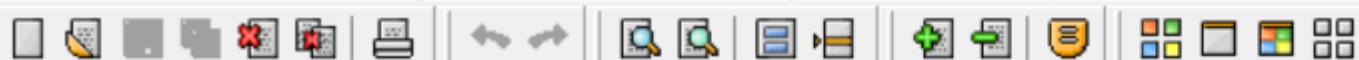
```
{
```

```
    return price;
```

```
}
```

# Project3 - [1st trial.dev] - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project3  
book.cpp  
book.h  
main.cpp

main.cpp book.h book.cpp

```
8  using namespace std;
9
10 #ifndef BOOK_H
11 #define BOOK_H
12
13 class Book
14 {
15
16     string Aname;
17     string Pname;
18     int id;
19     int year;
20     double price;
21 public:
22     void putAname(string);
23     string getAname();
24
25     void putPname(string);
26     string getPname();
27
28     void putid(int);
29     int getid();
30
31     void putyear(int);
32     int getyear();
33
34     void putprice(double);
35     double getprice();
36
37 };
38
39 #endif
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\03 march\5th t  
- Output Size: 1.88117790222168 MiB  
- Compilation Time: 1.31s

Line: 20

Col: 12

Sel: 0

Lines: 39

Length: 678

Insert

# Project3 - [1st trial.dev] - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project3  
book.cpp  
book.h  
main.cpp

main.cpp book.h book.cpp

```
1 //Create a class named Book with proper ID,  
2 // Write suitable member functions to collect  
3  
4  
5  
6 #include<iostream>  
7 #include<string>  
8 using namespace std;  
9  
10 ifndef BOOK_H  
11 define BOOK_H  
12  
13 class Book  
14 {  
15  
16     string Aname;  
17     string Pname;  
18     int id;  
19     int year;  
20     double price;  
21 public:  
22     void putAname(string);  
23     string getAname();  
24  
25     void putPname(string);  
26     string getPname();  
27  
28     void putid(int);  
29     int getid();  
30  
31     void putyear(int);  
32     int getyear();
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\03 march\5th t  
- Output Size: 1.88117790222168 MiB  
- Compilation Time: 1.31s

Line: 20

Col: 12

Sel: 0

Lines: 39

Length: 678

Insert

# Project3 - [1st trial.dev] - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project3  
book.cpp  
book.h  
main.cpp

main.cpp book.h book.cpp

```
47 int visited [5]={};int count,j;
48
49
50
51 for (i=0;i<5;i++)
52 {
53     if (visited[i]>0)
54         continue;
55
56     count=0;
57     for (j=i+1;j<5;j++)
58     {
59         if(b[j].getprice()==b[i])
60         {
61             count++;
62             visited[j]++;
63         }
64     }
65     cout<<"\n\n    "<<count+1<<" books ";
66 }
67
68
69
70
71
72 return 0;
73
74
75
76 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\03 march\5th t  
- Output Size: 1.88117790222168 MiB  
- Compilation Time: 1.31s

Line: 66

Col: 110

Sel: 0

Lines: 76

Length: 1271

Insert

# Project3 - [1st trial.dev] - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project3  
book.cpp  
book.h  
main.cpp

main.cpp book.h book.cpp

```
1 #include "book.h"
2
3
4 #include<iostream>
5 #include <string>
6
7 using namespace std;
8
9 int main()
10 {
11     Book b[5];
12
13     string an;
14     string pn;
15     double p;
16     int i,id,y;
17
18
19     for (i = 0; i < 5; i++)
20     {
21
22
23         cout<<"\n \n enter id \n";
24         cin>>id;
25         b[i].putid(id);
26
27
28         cout << "\n enter year " << endl;
29         cin >> y;
30         b[i].putyear(y);
31         cout << "\n enter price " << endl;
32         cin >> p;
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\03 march\5th t  
- Output Size: 1.88117790222168 MiB  
- Compilation Time: 1.31s

Line: 66

Col: 110

Sel: 0

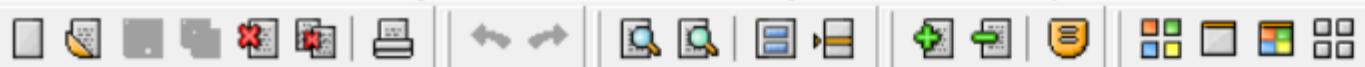
Lines: 76

Length: 1271

Insert

# Project3 - [1st trial.dev] - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project3  
book.cpp  
book.h  
main.cpp

main.cpp book.h book.cpp

```
1 #include "book.h"
2 #include<iostream>
3 #include <string>
4 using namespace std;
5
6
7
8 void Book::putAname(string an)
9 {
10     Aname = an;
11 }
12
13 void Book::putPname(string pn)
14 {
15     Pname = pn;
16 }
17 void Book::putid(int i)
18 {
19     id = i;
20 }
21
22 int Book::getid()
23 {
24     return id;
25 }
26
27 void Book::putyear(int y)
28 {
29     year = y;
30 }
31
32 int Book::getyear()
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\03 march\5th t  
- Output Size: 1.88117790222168 MiB  
- Compilation Time: 1.31s

Line: 2

Col: 19

Sel: 0

Lines: 56

Length: 564

Insert



E:\DEVcpp files\03 march\5th trials\1st trial.exe

enter id

1

enter year

2000

enter price

257

enter author name

john

enter publisher name

smith

year: 2000

id : 1

price: 257

author name: john

publisher name: smith

enter id

2

enter year

2002

enter price

567

enter author name

hitler

enter publisher name

yui

year: 2002

id : 2

price: 567

author name: hitler

publisher name: yui

enter id

```
E:\DEVcpp files\03 march\5th trials\1st trial.exe
```

```
enter price
```

```
567
```

```
enter author name
```

```
jui
```

```
enter publisher name
```

```
tyo
```

```
year: 2020
```

```
id : 4
```

```
price: 567
```

```
author name: jui
```

```
publisher name: tyo
```

```
enter id
```

```
5
```

```
enter year
```

```
2004
```

```
enter price
```

```
435
```

```
enter author name
```

```
tyu
```

```
enter publisher name
```

```
kyoko
```

```
year: 2004
```

```
id : 5
```

```
price: 435
```

```
author name: tyu
```

```
publisher name: kyoko
```

```
1 books have price 257
```

```
2 books have price 567
```

```
2 books have price 435
```

---

```
Process exited after 134.3 seconds with return value 0
```

```
Press any key to continue . . .
```

