

Date: 10-03-21

Name: Swaminathan Navinashok

Roll No : 2019115126

1. Write a C++ program to create a Student Information System for a class of N students. Student Information system should maintain the Roll Number, Name, Marks1, Marks2 and Marks3. Write suitable member functions to prepare a list of students who has obtained higher marks and above average in all the three subjects. (Use different types of creation of objects, Array of objects, pass and return objects as arguments wherever necessary).

"main.cpp"

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

void identity(Student &p);
void update_avg(Student *p, int i,int* avg);
void aboveavg(int t,Student *p,int avg[]);

int main()
{
    int t=0;cout<<" enter no. of students \n"; cin>>t;cout<<"\n\n";Student *p;
    p=new Student[t];

    int a;
    string n;

    int i;int marks;int j,avg[3]={};
```

```
for (i = 0; i < t; i++)
{
    identity(p[i]);

    update_avg(p,i,avg);

    cout << "\n\n roll number: " << p[i].getroll() << "\n name: " << p[i].getname() << endl;
    for(j=0;j<3;j++)

    {
        cout << " \n mark "<<j+1<<" "<<p[i].getmarks(j);

    }

}

for(j=0;j<3;j++)
{
    avg[j]=avg[j]/t;

    cout<<" \n \n average mark in subject "<<j+1<<" is "<<avg[j];

}

cout<<" \n \n students who got above average marks in all subjects \n ";
```

```

aboveavg(t,p,avg);

delete[] p;
return 0;

}

void identity(Student &p)
{
    int a;string n;
    cout << "\n\n\n\n enter roll number " << endl;
    cin >> a;
    p.putroll(a);
    cout << "\n enter name " << endl;
    cin >> n;
    p.putname(n);
}

void update_avg(Student *p, int i,int* avg)
{
    int j=0,marks=0;
    for(j=0;j<3;j++)

    {
        cout << "\n enter marks " << j+1 << " " << endl;
        cin >> marks;avg[j]+=marks;
    }
}

```

```

    p[i].putmarks(j,marks);
}

}

void aboveavg(int t,Student *p,int avg[])
{
    int i=0,j=0,k=0;

    for (i = 0; i < t; i++)
    {
        int k=0;
        for(j=0;j<3;j++)
        {

            if (p[i].getmarks(j) >= avg[j]) {k++;}
        }

        if (k==3)
        {
            cout<<"\n"<<p[i].getname()<<"\t"<<p[i].getroll();
        }
    }
}

```

### **“Student.h”**

```
#include<iostream>
```

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

class Student
{
    string name;
    int id;
    int roll;
    int marks[3];

public:
    void putname(string n);
    string getname();
    void putroll(int a);
    int getroll();
    void putid(int i);
    int getid();
    void putmarks(int,int);
    int getmarks(int);
};

#endif
```

### **“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::putroll(int a)
{
    roll = a;
}
```

```
int Student::getroll()
{
    return roll;
}
```

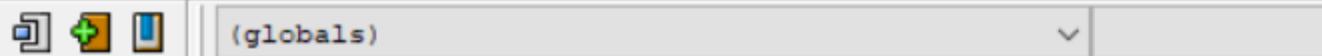
```
string Student::getname()
{
    return name;
}
```

```
void Student::putmarks(int i,int m)
```

```
{  
    marks[i] = m;  
}  
  
int Student::getmarks(int i)  
{  
    return marks[i];  
}
```

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

File Edit Search View Project Execute Tools AStyle Window Help



Project Classes Debug

Project1  
Student.cpp  
Student.h  
main.cpp

21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41

```
for (i = 0; i < t; i++)
{
    identity(p[i]);

    update_avg(p,i,avg);

    cout << "\n\n roll
for(j=0;j<3;j++)

{

    cout << " \n mark
}
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\10 march\1st  
- Output Size: 1.88127708435059 MiB  
- Compilation Time: 0.22s

Line: 51

Col: 49

Sel: 0

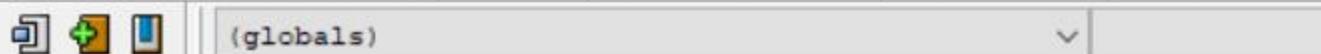
Lines: 112

Length: 1852

Insert

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

File Edit Search View Project Execute Tools AStyle Window Help



Project Classes Debug

Project1  
  Student.cpp  
  Student.h  
  main.cpp

```
42
43
44 }
45 for(j=0;j<3;j++)
46 {
47     avg[j]=avg[j]/t;
48     cout<<" \n \n average of "
49 }
50
51 cout<<" \n \n students above average is ";
52
53 aboveavg(t,p,avg);
54
55 delete[] p;
56 return 0;
57
58
59 }
60
61
62 void identity(Student &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\10 march\1st  
- Output Size: 1.88127708435059 MiB  
- Compilation Time: 0.22s

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

File Edit Search View Project Execute Tools AStyle Window Help



Project Classes Debug

Project1  
Student.cpp  
Student.h  
main.cpp

```
61
62 void identity(Student &p)
63 {
64
65
66
67
68
69
70
71
72
73
74 void update_avg(Student *p)
75 {
76
77
78
79 {
80
81 cout << "\n\n"
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

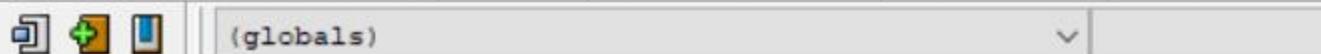
Shorten compiler paths

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: E:\DEVcpp files\10 march\1st
- Output Size: 1.88127708435059 MiB
- Compilation Time: 0.22s
```

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

File Edit Search View Project Execute Tools AStyle Window Help



Project Classes Debug

Project1  
Student.cpp  
Student.h  
main.cpp

main.cpp Student.h Student.cpp

```
72
73
74 void update_avg(Student *p)
75 {
76     int j=0,marks=0;
77     for(j=0;j<3;j++)
78     {
79         cout << "\n enter marks";
80         cin >> marks;
81         p[i].putmarks(marks);
82     }
83
84 }
85
86
87
88 void aboveavg(int t,Student *p)
89 {
90     int i=0,j=0,k=0;
91
92 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

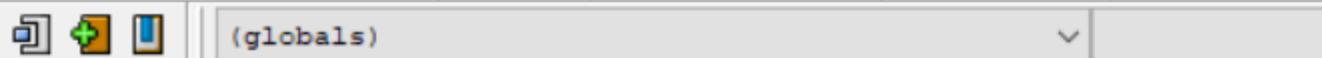
Shorten compiler paths

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: E:\DEVcpp files\10 march\1st
- Output Size: 1.88127708435059 MiB
- Compilation Time: 0.22s
```

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

File Edit Search View Project Execute Tools AStyle Window Help



Project Classes Debug

Project1  
Student.cpp  
Student.h  
main.cpp

```
87
88 void aboveavg(int t,Studen
89 { int i=0,j=0,k=0;
90
91 for (i = 0; i
92 { int k=0;
93 for(j=
94
95 if (k==3)
96 {
97 cout<<"\n"
98
99
100
101
102
103
104
105
106
107 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: E:\DEVcpp files\10 march\1st
- Output Size: 1.88127708435059 MiB
- Compilation Time: 0.22s
```

Line: 51

Col: 49

Sel: 0

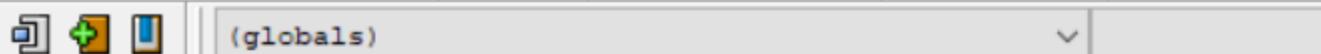
Lines: 112

Length: 1852

Insert

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

File Edit Search View Project Execute Tools AStyle Window Help



Project Classes Debug

Project1  
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

7 class Student
8 {
9     string name;
10    int id;
11    int roll;
12    int marks[3];
13 public:
14     void putname(string n);
15     string getname();
16     void putroll(int a);
17     int getroll();
18     void putid(int i);
19     int getid();
20     void putmarks(int,int);
21     int getmarks(int);
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\10 march\1st  
- Output Size: 1.88127708435059 MiB  
- Compilation Time: 0.22s

Line: 4

Col: 18

Sel: 0

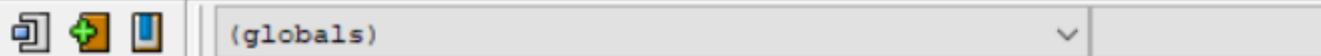
Lines: 24

Length: 367

Insert

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

File Edit Search View Project Execute Tools AStyle Window Help



Project Classes Debug

Project1  
Student.cpp  
Student.h  
main.cpp

```
16 int Student::getid()
17 {
18     return id;
19 }
20
21 void Student::putroll(int a)
22 {
23     roll = a;
24 }
25
26 int Student::getroll()
27 {
28     return roll;
29 }
30
31 string Student::getname()
32 {
33     return name;
34 }
35
36 void Student::putmarks(int i,int m)
37 {
38     marks[i] = m;
39 }
40
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\10 march\1st  
- Output Size: 1.88127708435059 MiB  
- Compilation Time: 0.22s

Line: 28

Col: 16

Sel: 0

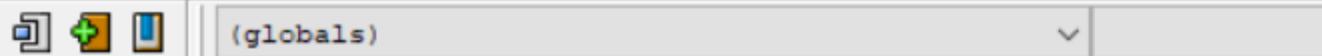
Lines: 47

Length: 496

Insert

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

File Edit Search View Project Execute Tools AStyle Window Help



Project Classes Debug

Project1  
Student.cpp  
Student.h  
main.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::putroll(int a)
22 {
23     roll = a;
24 }
25
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: E:\DEVcpp files\10 march\1st
- Output Size: 1.88127708435059 MiB
- Compilation Time: 0.22s
```

Line: 28

Col: 16

Sel: 0

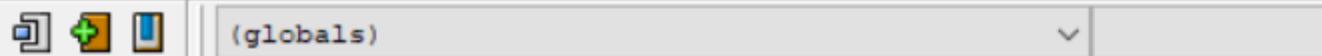
Lines: 47

Length: 496

Insert

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

File Edit Search View Project Execute Tools AStyle Window Help



Project Classes Debug

Project1  
Student.cpp  
Student.h  
main.cpp

```
23     roll = a;
24 }
25
26 int Student::getroll()
27 {
28     return roll;
29 }
30
31 string Student::getname()
32 {
33     return name;
34 }
35
36 void Student::putmarks(int i,int
37 {
38     marks[i] = m;
39 }
40
41 int Student::getmarks(int i)
42 {
43     return marks[i];
44 }
45
46
47
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\10 march\1st  
- Output Size: 1.88127708435059 MiB  
- Compilation Time: 0.22s

Line: 28

Col: 16

Sel: 0

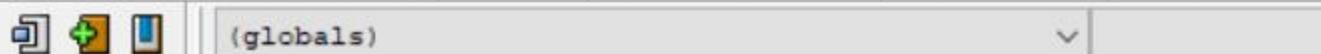
Lines: 47

Length: 496

Insert

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

File Edit Search View Project Execute Tools AStyle Window Help



Project Classes Debug

Project1  
Student.cpp  
Student.h  
main.cpp

main.cpp Student.h Student.cpp

```
1
2
3 #include<iostream>
4 #include <string>
5 #include "Student.h"
6 using namespace std;
7
8 void identity(Student &
9     void update_avg(Student &
10    void aboveavg(int t,Stu
11 int main()
12 {
13     int t=0;cout<<" enter
14     p=new Student[t];
15
16     int a;
17     string n;
18
19     int i;int marks;int j
20
21
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation  
 Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\10 march\1st  
- Output Size: 1.88127708435059 MiB  
- Compilation Time: 0.22s

Line: 51

Col: 49

Sel: 0

Lines: 112

Length: 1852

Insert



E:\DEVcpp files\10 march\1stq\Project1.exe

roll number: 231  
name: smith

mark 1 89  
mark 2 35  
mark 3 10

enter roll number  
455

enter name  
yuri

enter marks 1  
80

enter marks 2  
80

enter marks 3  
80

roll number: 455  
name: yuri

mark 1 80  
mark 2 80  
mark 3 80

enter roll number  
789

enter name  
navin

enter marks 1  
82

enter marks 2  
82

enter marks 3  
82

```
E:\DEVcpp files\10 march\1stq\Project1.exe
```

```
enter roll number
```

```
789
```

```
enter name
```

```
navin
```

```
enter marks 1
```

```
82
```

```
enter marks 2
```

```
82
```

```
enter marks 3
```

```
82
```

```
roll number: 789
```

```
name: navin
```

```
mark 1 82
```

```
mark 2 82
```

```
mark 3 82
```

```
average mark in subject 1 is 71
```

```
average mark in subject 2 is 71
```

```
average mark in subject 3 is 65
```

```
students who got above average marks in all subjects
```

```
yuri 455
```

```
navin 789
```

```
-----
```

```
Process exited after 82.37 seconds with return value 0
```

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

```
E:\DEVcpp files\10 march\1stq\Project1.exe
```

```
enter no. of students
```

```
4
```

```
enter roll number
```

```
123
```

```
enter name
```

```
john
```

```
enter marks 1
```

```
34
```

```
enter marks 2
```

```
89
```

```
enter marks 3
```

```
90
```

```
roll number: 123
```

```
name: john
```

```
mark 1 34
```

```
mark 2 89
```

```
mark 3 90
```

```
enter roll number
```

```
231
```

```
enter name
```

```
smith
```

```
enter marks 1
```

```
89
```

```
enter marks 2
```

```
35
```

```
enter marks 3
```

```
10
```

```
roll number: 231
```

**2) Write a C++ program to create a Banking application using classes and objects with basic data members and member functions. Banking application should include the provisions for the following functions: (Use various types of constructors with constructor overloading and destructors, Default arguments)**

- a. Opening an account
- b. Showing account information
- c. Deposit of money
- d. Withdrawal of money
- e. Search of customer details and balance

**(Create objects using dynamic allocation operators. Use this pointer wherever necessary)**

**“Main.cpp”**

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

int main()
{
    int n=0,dep=0,wd=0;
    cout<<"\n how many bank accounts?\n ";cin>>n;bankapp *bp;bp=new bankapp[n];
    int acc=0,int i=0,c=0,flag=0;

    for (i = 0; i < n; i++)
    {
        bp[i].open();
    }

    do {

        cout << "\n\n1)search account No\n2)deposit\n3)Withdraw\n enter 0 to quit \n\n"
        << endl;

        cin >> c;

        switch (c) {
```

```

case 1:
{
    cout << "\n enter account number
to search for \n";
    cin >> acc; flag=0;
    for (i = 0; i <= n; i++)
    {
        if(bp[i].getacc()==acc)
        {
            flag=1;bp[i].show();
        }
    }
    if (flag==0)
        cout << "\n account number doesnt exist \n" <<
endl;
    break;
}

case 2:
{
    cout << "\n enter account number to
deposit to \n";
    cin >> acc; flag=0;
    for (i = 0; i <= n; i++)
    {
        if(bp[i].getacc()==acc)
        {
            flag=1;cout<<"\n enter amount to
deposit\n";cin>>dep;bp[i].deposit(dep);bp[i].show();
        }
    }
    if (flag==0)
        cout << "\n account number doesnt exist \n" <<
endl;
    break;
}

case 3:
{
    cout << "\n enter account number to
withdraw from \n";
    cin >> acc;flag=0;
    for (i = 0; i <= n; i++)

```

```

        {
            if(bp[i].getacc()==acc)
            {
                flag=1;cout<<"\n enter amount to
withdraw\n";cin>>wd;bp[i].withdraw(wd);bp[i].show();
            }
        }

        if (flag==0)
            cout << "\n account number doesnt exist \n" <<
endl;
        break;
    }

    case 0: break;

    default:
        cout << "invalid choice" << endl;
    }
} while (c!=0);
delete[] bp;
return 0;
}

```

### **“bankaccount.cpp”**

```

#include "bankapp.h"
#include<iostream>
#include<string>
using namespace std;
int bankapp::counter=0;
bankapp::bankapp()
{
    counter++;
    cout<<"\n constructing object "<<counter<<endl;
}
bankapp::~bankapp()
{
    cout<<"\n destructing object "<<counter<<endl;counter--;
}
string bankapp::getname(void)
{
    return name;
}

int bankapp::getacc(void)

```

```

{
    return acc;
}

void bankapp::open()
{
    cout << "\n\n enter name\n ";
    cin >> name;
    cout << "\n enter account number \n ";
    cin >> acc;
    cout << "\n enter balance \n ";
    cin >> bal;
}

void bankapp::show()
{
    cout << "\n\n\n name is " << name << "\n account Number is " << acc << "\n balance
is " << bal << endl;

}

void bankapp::deposit(int dep)
{
    bal+=dep;
}

void bankapp::withdraw(int wd)
{
    if (wd<bal)
        bal-=wd;
    else
        cout << "\n not enough balance \n " << endl;
}

```

**“bankaccount.h”**

```
#ifndef BANKAPP_H
#define BANKAPP_H

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

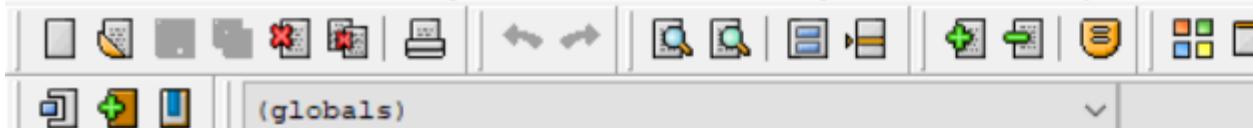
class bankapp
{
private:
    string name;
    int acc;
    int bal;

public:
    static int counter;
    bankapp();
    void open(void);
    int getacc(void);
    void show();
    string getname(void);
    void deposit(int);
    void withdraw(int);
    int search(int);
    ~bankapp();
};

#endif
```

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

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project6  
bankapp.cpp  
bankapp.h  
main.cpp

```
39 void bankapp::show()  
40 {  
41     cout << "\n\n\n    name:  
42 }  
43  
44  
45  
46  
47  
48 void bankapp::deposit(int dep)  
49 {  
50     bal+=dep;  
51 }  
52  
53  
54  
55 void bankapp::withdraw(int wd)  
56 {  
57     if (wd<bal)  
58         bal-=wd;  
59     else  
60         cout << "\n    not enough  
61 }  
62  
63
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\10 march\Project6\bin\Debug\Project6.exe  
- Output Size: 1.88022708892822 MiB  
- Compilation Time: 0.20s

Line: 11

Col: 20

Sel: 0

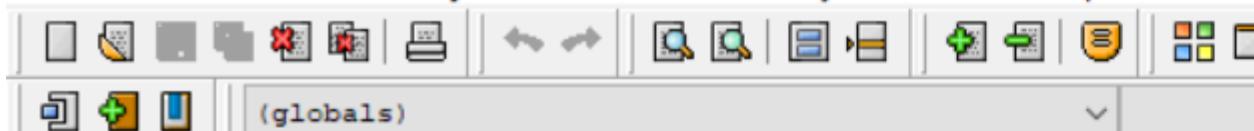
Lines: 63

Length: 1035

Ins

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

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project

Classes

Debug

main.cpp

bankapp.h

bankapp.cpp

Project6

bankapp.cpp  
bankapp.h  
main.cpp

27

```
28     void bankapp::open()
29     {
30         cout << "\n\n enter name"
31         cin >> name;
32         cout << "\n enter account"
33         cin >> acc;
34         cout << "\n enter balance"
35         cin >> bal;
36     }
37
38
39     void bankapp::show()
40     {
41         cout << "\n\n\n name"
42     }
43
44
45
46
47
48     void bankapp::deposit(int dep)
49     {
50
51         bal+=dep;
52     }
```

Compiler

Resources

Compile Log

Debug

Find Results

Close

Abort Compilation

Shorten compiler paths

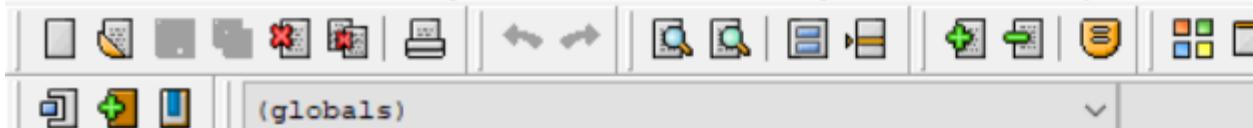
Compilation results...

-----

- Errors: 0
- Warnings: 0
- Output Filename: E:\DEVcpp files\10 marc
- Output Size: 1.88022708892822 MiB
- Compilation Time: 0.20s

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

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project

Classes

Debug

main.cpp

bankapp.h

bankapp.cpp

Project6

bankapp.cpp

bankapp.h

main.cpp

```
1 #include "bankapp.h"
```

```
2 #include<iostream>
```

```
3 #include<string>
```

```
4 using namespace std;
```

```
5 int bankapp::counter=0;
```

```
6 bankapp::bankapp()
```

```
7 {
```

```
8     counter++;
```

```
9     cout<<"\n constructing
```

```
10 }
```

```
11 bankapp::~bankapp()
```

```
12 {
```

```
13 }
```

```
14     cout<<"\n destructing obj
```

```
15 }
```

```
16 string bankapp::getname(void)
```

```
17 {
```

```
18     return name;
```

```
19 }
```

```
20
```

```
21 int bankapp::getacc(void)
```

```
22 {
```

```
23     return acc;
```

```
24 }
```

```
25
```

Compiler

Resources

Compile Log

Debug

Find Results

Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----

- Errors: 0

- Warnings: 0

- Output Filename: E:\DEVcpp files\10 marc

- Output Size: 1.88022708892822 MiB

- Compilation Time: 0.20s

Line: 11

Col: 20

Sel: 0

Lines: 63

Length: 1035

Ins

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

File Edit Search View Project Execute Tools AStyle Window Help



Project Classes Debug

Project6  
bankapp.cpp  
bankapp.h  
main.cpp

main.cpp bankapp.h bankapp.cpp

```
4 #include<iostream>
5 #include<string>
6 using namespace std;
7
8 class bankapp
9 {
10 private:
11     string name;
12     int acc;
13     int bal;
14
15 public:
16     static int counter;
17     bankapp();
18     void open(void);
19     int getacc(void);
20     void show();
21     string getname(void);
22     void deposit(int);
23     void withdraw(int);
24     int search(int);
25     ~bankapp();
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\10 marc  
- Output Size: 1.88022708892822 MiB  
- Compilation Time: 0.20s

Line: 16

Col: 24

Sel: 0

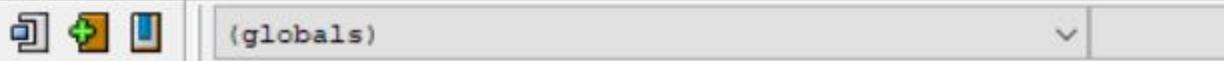
Lines: 28

Length: 418

Ins

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

File Edit Search View Project Execute Tools AStyle Window Help



Project Classes Debug main.cpp bankapp.h bankapp.cpp

Project6  
bankapp.cpp  
bankapp.h  
main.cpp

```
67  
68  
69  
70 }  
71 }  
72 }  
73  
74  
75  
76  
77  
78  
79  
80 }  
81  
82 case 0: break;  
83  
84 default:  
85 cout << "invalid"  
86 }  
87 } while (c!=0);  
88 delete[] bp;  
89 return 0;  
90 }  
91 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\10 marc  
- Output Size: 1.88022708892822 MiB  
- Compilation Time: 0.20s

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

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug main.cpp bankapp.h bankapp.cpp

Project6  
bankapp.cpp  
bankapp.h  
main.cpp

59  
60  
61  
62  
63  
64  
65  
66  
67  
68  
69  
70  
71  
72  
73  
74  
75  
76  
77  
78  
79  
80  
81  
82  
83

case 3:

{

case 0: break;

}

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\10 marc  
- Output Size: 1.88022708892822 MiB  
- Compilation Time: 0.20s

Shorten compiler paths

Line: 20

Col: 8

Sel: 0

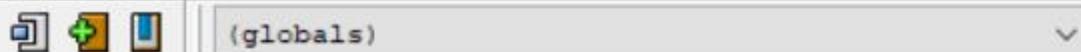
Lines: 91

Length: 2320

Ins

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

File Edit Search View Project Execute Tools AStyle Window Help



Project Classes Debug main.cpp bankapp.h bankapp.cpp

Project6  
bankapp.cpp  
bankapp.h  
main.cpp

37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60  
61

case 2:

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\10 marc  
- Output Size: 1.88022708892822 MiB  
- Compilation Time: 0.20s

Shorten compiler paths

Line: 20

Col: 8

Sel: 0

Lines: 91

Length: 2320

Ins

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

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project6  
bankapp.cpp  
bankapp.h  
main.cpp

main.cpp bankapp.h bankapp.cpp

```
18
19 do {
20
21     cout << "\n\n1)search"
22
23
24     cin >> c;
25
26     switch (c) {
27
28         case 1:
29
30
31
32
33
34
35
36
37
38
39
40
41
42
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: E:\DEVcpp files\10 marc
- Output Size: 1.88022708892822 MiB
- Compilation Time: 0.20s
```

Line: 20

Col: 8

Sel: 0

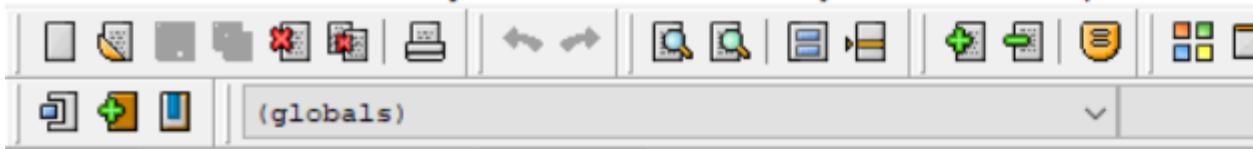
Lines: 91

Length: 2320

Ins

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

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project6  
bankapp.cpp  
bankapp.h  
main.cpp

main.cpp bankapp.h bankapp.cpp

```
1 #include<iostream>
2 #include<string>
3 using namespace std;
4 #include "bankapp.h"
5
6 int main()
7 {
8     int n=0,dep=0,wd=0;
9     cout<<"\n how many bank a
10    int acc=0;int i=0,c=0,fla
11
12
13
14    for (i = 0; i < n; i++)
15    {
16        bp[i].open();
17    }
18
19    do {
20
21        cout << "\n\n1)search
22
23
24        cin >> c;
25    }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----

- Errors: 0
- Warnings: 0
- Output Filename: E:\DEVcpp files\10 marc
- Output Size: 1.88022708892822 MiB
- Compilation Time: 0.20s

Line: 20

Col: 8

Sel: 0

Lines: 91

Length: 2320

Ins

```
[E:\DEVcpp files\10 march\2q\Project6.exe]
```

```
    name is smith  
    account Number is 321  
    balance is 66000
```

```
1)search account No  
2)deposit  
3)Withdraw  
    enter 0 to quit
```

```
3
```

```
    enter account number to withdraw from  
123
```

```
    enter amount to withdraw  
780
```

```
    name is john  
    account Number is 123  
    balance is 6000
```

```
1)search account No  
2)deposit  
3)Withdraw  
    enter 0 to quit
```

```
0
```

```
destructing object 2
```

```
destructing object 1
```

```
-----  
Process exited after 81.25 seconds with return value 0  
Press any key to continue . . .
```

E:\DEVcpp files\10 march\2q\Project6.exe

enter account number to search for  
321

name is smith  
account Number is 321  
balance is 65430

1)search account No  
2)deposit  
3)Withdraw  
enter 0 to quit

2

enter account number to deposit to  
321

enter amount to deposit  
570

name is smith  
account Number is 321  
balance is 66000

1)search account No  
2)deposit  
3)Withdraw  
enter 0 to quit

3

enter account number to withdraw from  
123

enter amount to withdraw  
780

name is john  
account Number is 123

```
E:\DEVcpp files\10 march\2q\Project6.exe
```

```
how many bank accounts?
```

```
2
```

```
constructing object 1
```

```
constructing object 2
```

```
enter name
```

```
john
```

```
enter account number
```

```
123
```

```
enter balance
```

```
6780
```

```
enter name
```

```
smith
```

```
enter account number
```

```
321
```

```
enter balance
```

```
65430
```

```
1)search account No
```

```
2)deposit
```

```
3)Withdraw
```

```
enter 0 to quit
```

```
1
```

```
enter account number to search for
```

```
321
```

```
name is smith
```

```
account Number is 321
```

```
balance is 65430
```

```
1)search account No
```

```
2)deposit
```

```
3)Withdraw
```

**3. Write a C++ program to generate Fibonacci series using classes and objects. Use inline functions wherever necessary.**

“main.cpp”

```
#include <iostream>
```

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

```
using namespace std;
```

```
int input();
```

```
int main()
```

```
{
```

```
    Fibonacci f;
```

```
    int n=0;
```

```
    n=input();
```

```
    f.fibfunc(n);
```

```
    return 0;
```

```
}
```

```
inline int input()
```

```
{int n=0;
```

```
cout<<"\n enter no.of terms you need \n "; cin>>n;
```

```
return n;
```

```
}
```

“Fibonacci.cpp”

```
#include "Fibonacci.h"

#include<iostream>
using namespace std;

Fibonacci::Fibonacci()

{

    f = 0, s= 1, sum = 0,terms=0;

}

inline 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++;

    }

}
```

**“Fibonacci.h”**

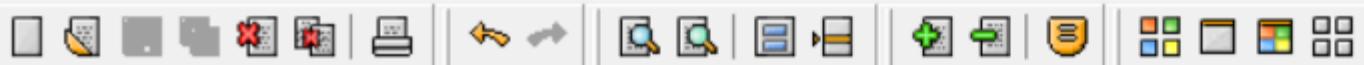
```
#ifndef FIBONACCI_H
#define FIBONACCI_H

class Fibonacci
{
    int f ,s,sum,terms;
public:
    Fibonacci();
    void fibfunc(int);
};

#endif
```

Project3 - [Project3.dev] - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project3  
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;
10 }
11
12
13 inline void Fibonacci::fibfunc(int n)
14 {
15     terms=n;int k=2;//as i already
16     int fi=f,se=s;
17     cout<<"\n the fibonacci series";
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 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\10 march\3q\Project3\bin\Debug\Project3.exe  
- Output Size: 1.85414600372314 MiB  
- Compilation Time: 0.34s

Line: 3

Col: 1

Sel: 0

Lines: 30

Length: 516

Insert



Project3 - [Project3.dev] - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

main.cpp Fibonacci.h Fibonacci.cpp

- Project3
  - Fibonacci.cpp
  - Fibonacci.h
  - main.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\10 march\3q\Pr
- Output Size: 1.85414600372314 MiB
- Compilation Time: 0.34s

Line: 9

Col: 9

Sel: 0

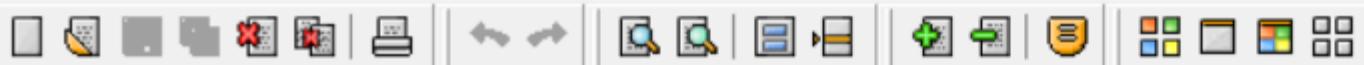
Lines: 12

Length: 151

Insert

Project3 - [Project3.dev] - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project3  
Fibonacci.cpp  
Fibonacci.h  
main.cpp

main.cpp Fibonacci.h Fibonacci.cpp

```
1 #include <iostream>
2 #include "Fibonacci.h"
3
4 using namespace std;
5
6 int input();
7 int main()
8
9 {
10     Fibonacci f;
11     int n=0;
12
13     n=input();
14     f.fibfunc(n);
15
16
17     return 0;
18 }
19
20 inline int input()
21 {
22     int n=0;
23     cout<<"\n enter no.of terms you need";
24     return n;
25 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\10 march\3q\Pr  
- Output Size: 1.85414600372314 MiB  
- Compilation Time: 0.34s

Line: 6

Col: 13

Sel: 0

Lines: 24

Length: 328

Insert

E:\DEVcpp files\10 march\3q\Project3.exe

```
enter no.of terms you need
```

```
5
```

```
the fibonacci series is
```

```
0 1 1 2 3
```

```
-----  
Process exited after 2.658 seconds with return value 0
```

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

**4. Write a C++ program to retrieve the current time of a clock (Hours and minutes) by different objects belonging to a class using static data members and static member functions**

“main.cpp”

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

int main()
{
    char c='y';
    cout<<"\n time now is\n"<<timeclass::get_time_now();
    do
    {
        if(c=='y')
        {
            timeclass t1;
            cout<<"\n the object was created at time\n "<<t1.get_create_time();
            cout<<"\n do you wish to create another object ? press y for yes\n";cin>>c;
        }
    }
```

```
 }while(c=='y');

    return 0;
}

“timeclass.cpp”

#include "timeclass.h"

#include<ctime>

#include <iostream>

using namespace std;

int timeclass::count=0;

timeclass::timeclass()

{

    cout<<"\n creating new object at ";

    time_t now = time(0);

    create_time = ctime(&now);

    cout<<create_time<<endl;

}

timeclass::~timeclass()

{

    time_t nw = time(0);

    destroy_time = ctime(&nw);

    cout<<"\n destroying previous object at "<<destroy_time<<endl;

}
```

```
string timeclass::get_create_time()
{
    return create_time;

}

string timeclass::get_time_now()
{
    time_t now = time(0);

    string time_now = ctime(&now);

    return time_now;
}
```

### **“timeclass.h”**

```
#ifndef TIMECLASS_H
#define TIMECLASS_H

#include<string>
#include <iostream>
#include<ctime>

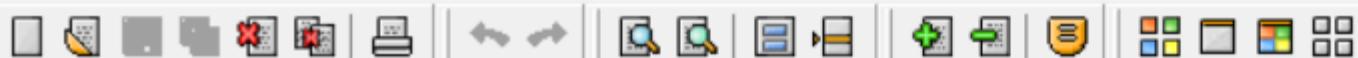
using namespace std;

class timeclass
{
    string create_time;
    string destroy_time;
```

```
public :  
    timeclass();  
    static int count;  
    string get_create_time();  
    static string get_time_now();  
    ~timeclass();  
  
};  
  
#endif
```

# Project4 - [Project4.dev] - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project4  
main.cpp  
timeclass.cpp  
timeclass.h

main.cpp timeclass.h timeclass.cpp

```
17
18     timeclass::~timeclass()
19 {
20     time_t nw = time(0);
21     destroy_time = ctime(&nw);
22     cout<<"\n destroying previous object"
23 }
24
25     string timeclass::get_create_time()
26 {
27     return create_time;
28 }
29
30     string timeclass::get_time_now()
31 {
32     time_t now = time(0);
33
34     string time_now = ctime(&now);
35     return time_now;
36 }
37
38
39
40
41
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: E:\DEVcpp files\10 march\4q\tr
- Output Size: 1.88101863861084 MiB
- Compilation Time: 0.20s
```

Line: 10

Col: 23

Sel: 0

Lines: 41

Length: 644

Insert

# Project4 - [Project4.dev] - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project4  
main.cpp  
timeclass.cpp  
timeclass.h

main.cpp timeclass.h timeclass.cpp

```
1 #include "timeclass.h"
2 #include<ctime>
3 #include <iostream>
4 using namespace std;
5
6 int timeclass::count=0;
7
8 timeclass::timeclass()
9 {
10     cout<<"\n creating new object ";
11     time_t now = time(0);
12
13     create_time = ctime(&now);
14     cout<<create_time<<endl;
15
16 }
17
18 timeclass::~timeclass()
19 {
20     time_t nw = time(0);
21     destroy_time = ctime(&nw);
22     cout<<"\n destroying previous object ";
23 }
24
25 string timeclass::get_create_time()
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\10 march\4q\tutorial\Project4\Project4.exe  
- Output Size: 1.88101863861084 MiB  
- Compilation Time: 0.20s

Line: 10

Col: 23

Sel: 0

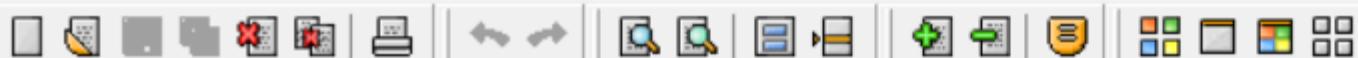
Lines: 41

Length: 644

Insert

# Project4 - [Project4.dev] - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project4  
main.cpp  
timeclass.cpp  
timeclass.h

main.cpp timeclass.h timeclass.cpp

```
1 #ifndef TIMECLASS_H
2 #define TIMECLASS_H
3 #include<string>
4 #include <iostream>
5 #include<ctime>
6 using namespace std;
7
8 class timeclass
9 {
10     string create_time;
11     string destroy_time;
12
13 public :
14     timeclass();
15     static int count;
16     string get_create_time();
17     static string get_time_now();
18     ~timeclass();
19
20 }
21
22
23 #endif
24
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\10 march\4q\t  
- Output Size: 1.88101863861084 MiB  
- Compilation Time: 0.20s

Line: 18

Col: 12

Sel: 0

Lines: 24

Length: 342

Insert

# Project4 - [Project4.dev] - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project4  
main.cpp  
timeclass.cpp  
timeclass.h

main.cpp timeclass.h timeclass.cpp

```
6 int main()
7 {
8
9
10
11     char c='y';
12     cout<<"\n time now is\n" <<timecl
13     do
14     {
15
16
17
18         if(c=='y')
19         {
20
21             timeclass t1;
22             cout<<"\n the object w
23             cout<<"\n do you wish "
24         }
25
26     }while(c=='y');
27
28     return 0;
29 }
30
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\10 march\4q\tr  
- Output Size: 1.88101863861084 MiB  
- Compilation Time: 0.20s

Line: 24

Col: 13

Sel: 0

Lines: 30

Length: 483

Insert

Project4 - [Project4.dev] - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project4  
main.cpp  
timeclass.cpp  
timeclass.h

main.cpp timeclass.h timeclass.cpp

```
1 #include <iostream>
2 #include <ctime>
3 #include "timeclass.h"
4 using namespace std;
5
6 int main()
7 {
8
9
10
11     char c='y';
12     cout<<"\n time now is\n" <<timecl
13     do
14     {
15
16
17
18         if(c=='y')
19         {
20
21             timeclass t1;
22             cout<<"\n the object w
23             cout<<"\n do you wish "
24         }
25     }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\10 march\4q\tre  
- Output Size: 1.88101863861084 MiB  
- Compilation Time: 0.20s

Line: 24

Col: 13

Sel: 0

Lines: 30

Length: 483

Insert

E:\DEVcpp files\10 march\4q\trial 1\Project4.exe

```
time now is
Thu Mar 11 02:45:13 2021

creating new object at Thu Mar 11 02:45:13 2021

the object was created at time
Thu Mar 11 02:45:13 2021

do you wish to create another object ? press y for yes
y

destroying previous object at Thu Mar 11 02:45:22 2021

creating new object at Thu Mar 11 02:45:23 2021

the object was created at time
Thu Mar 11 02:45:23 2021

do you wish to create another object ? press y for yes
y

destroying previous object at Thu Mar 11 02:45:37 2021

creating new object at Thu Mar 11 02:45:37 2021

the object was created at time
Thu Mar 11 02:45:37 2021

do you wish to create another object ? press y for yes
n

destroying previous object at Thu Mar 11 02:45:44 2021

-----
Process exited after 30.49 seconds with return value 0
Press any key to continue . . .
```

**5. Write a C++ program to illustrate and practice the usage of Constant pointer, Pointer to a constant and Constant pointer to a constant.**

“main.cpp”

```
#include <iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    char c = 'a';const char c2='b';const char c3='c';
```

```
    char *cp1 = &c;cout<<"\n adress :"<<cp1<<"\n value :"<<*cp1;
```

```
    cout<<"\n\n\n constant pointer to char , cannot change adress \n ";
```

```
    char * const cp2 = &c;
```

```
    cout<<"\n adress : "<<cp2<<"\n value : "<<*cp2;
```

```
    cout<<"\n changing value \n ";
```

```
*cp2='A';
```

```
    cout<<"\n adress : "<<cp2<<"\n value : "<<*cp2;
```

```
    cout<<"\n\n\n pointer to a character constant cannot change value \n ";
```

```
    const char * cp3 = &c2;
```

```
    cout<<"\n adress : "<<cp3<<"\n value : "<<*cp3;
```

```
    cout<<"\n changing pointer to point to another var \n ";
```

```
    cp3=&c3;
```

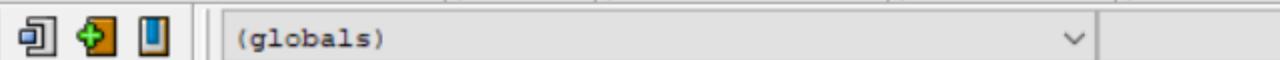
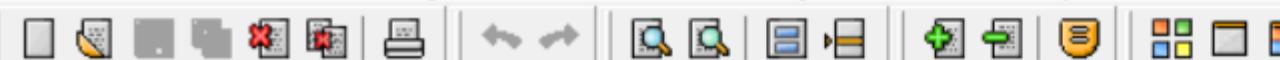
```
    cout<<"\n adress : "<<cp3<<"\n value : "<<*cp3;
```

```
cout<<"\n\n\n constant pointer to a character constants cannot change adress or value\n\n";
const char * const cp4=&c3;
cout<<"\n adress : "<<cp4<<"\n value : "<<*cp4;

return 0;
}
```

DEV Project5 - [Project5.dev] - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



Project Classes Debug

Project5  
main.cpp

main.cpp

```
14 cout<<"\n adress : "<<cp
15 cout<<"\n changing value
16 *cp2='A';
17 cout<<"\n adress : "<<cp
18
19
20 cout<<"\n\n\n pointer to
21 const char * cp3 = &c2;
22 cout<<"\n adress : "<<cp
23 cout<<"\n changing pointer
24 cp3=&c3;
25 cout<<"\n adress : "<<cp
26
27
28 cout<<"\n\n\n constant pointer
29 const char * const cp4=&c4;
30 cout<<"\n adress : "<<cp
31
32
33
34
35
36
37     return 0;
38 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\10 march\Project5\Project5.exe  
- Output Size: 1.84288311004639 MiB  
- Compilation Time: 0.22s

Line: 1 Col: 20

Sel: 0

Lines: 38

Length: 1038

Insert

Project5 - [Project5.dev] - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help



(global)

Project Classes Debug

main.cpp

## Project5

```
1 #include <iostream>
2 using namespace std;
3
4
5
6 int main()
7 {
8     char c = 'a'; const char c2 =
9         char *cp1 = &c; cout<<"\n"
10
11
12     cout<<"\n\n\n constant pointer : " << c;
13     char * const cp2 = &c;
14     cout<<"\n adress : " << cp2;
15     cout<<"\n changing value : " << *cp2;
16     *cp2='A';
17     cout<<"\n adress : " << cp2;
18
19
20     cout<<"\n\n\n pointer to const : ";
21     const char * cp3 = &c2;
22     cout<<"\n adress : " << cp3;
23     cout<<"\n changing pointer to const : ";
24     cp3=&c3;
25     cout<<"\n adress : " << cp3;
```

Compiler

 Resources

Compile Log

 Debug

 Find Results

 Close

### Shorten compiler paths

## Compilation results...

-----

- ```
- Errors: 0
- Warnings: 0
- Output Filename: E:\DEVcpp files\10 march\
- Output Size: 1.84288311004639 MiB
- Compilation Time: 0.22s
```

Line: 1 Col: 20

Sel: 0

Lines: 38

Length: 1038

Insert

```
E:\DEVcpp files\10 march\5q\Project5.exe
```

```
value :a
```

```
constant pointer to char , cannot change adress
```

```
adress : a@
```

```
value : a
```

```
changing value
```

```
adress : A@
```

```
value : A
```

```
pointer to a character constant cannot change value
```

```
adress : bA@
```

```
value : b
```

```
changing pointer to point to another var
```

```
adress : cbA@
```

```
value : c
```

```
constant pointer to a character constants cannot change adress or value
```

```
adress : cbA@^p
```

```
value : c
```

```
-----  
Process exited after 5.827 seconds with return value 0
```

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

**6) Write a C++ program using classes and objects to add, subtract and multiply two distances and return the appropriate results (Convert the distance into appropriate feet and inches after addition)**  
– Make use of this pointer and Reference variables.

“main.cpp”

```
#include <iostream>
#include <string>
#include "Distance.h"
using namespace std;
void details(Distance&);

int main()
{
    Distance p[3];

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

    int s=0,int k=0,int y=0;
    int i=0;
    int f3=0,i3=0;

    do
    {
```

```

cout<<"\n\n\n press 1 to add , 2 to subtract,3 to multiply 2 distance objects \n ";
cin>>y;
for(i=0;i<2;i++)
{
    details(p[i]);
}

}

switch(y)
{
    case 1:
f3=p[0].outputf()+p[1].outputf();i3=p[0].outputi()+p[1].outputi();break;
    case 2:
f3=p[0].outputf()-p[1].outputf();i3=p[0].outputi()-p[1].outputi();break;
    case 3:
f3=p[0].outputf()*p[1].outputf();i3=p[0].outputi()*p[1].outputi();break;
    default: cout<<"\n invalid input \n";break;
}

p[3].inputf(f3);
p[3].inputi(i3);

cout << "\n\n result \n\n feets: " << p[3].outputf() << "\n inches : " <<
p[3].outputi() << endl;

cout<<"\n \n do you wish to try once again? press 0 if no , else any other number \n";
;
cin>>k;

```

```

} while(k!=0);

return 0;

}

void details(Distance &p)
{
    int i=0,f=0,inch=0;
    cout << "\n\n\n enter feet ";
    cin >> f;
    p.inputf(f);

    cout << "\n enter inches ";
    cin >> inch;
    p.inputi(inch);

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

```

### **“Distance.cpp”**

```

#include <iostream>
#include "Distance.h"
#include <iostream>

```

```
using namespace std;
```

```
int Distance::count = 0;
```

```
void Distance::inputf(int f)
```

```
{
```

```
    this->feet = f;
```

```
}
```

```
void Distance::inputi(int i)
```

```
{
```

```
    while (i > 11)
```

```
{
```

```
    i = i - 12;
```

```
    this->feet += 1;
```

```
}
```

```
    while((i<0) && ((this->feet)>0))
```

```
{
```

```
    this->feet -= 1;
```

```
i+=12;
```

```
}
```

```
    this->inches = i;
```

```
}
```

```
int Distance::outputf()
```

```
{
```

```
    return this->feet;
```

```
}
```

```
int Distance::outputi()
```

```
{  
    return this->inches;  
}
```

### **“Distance.h”**

```
#ifndef DISTANCE_H
```

```
#define DISTANCE_H
```

```
class Distance{
```

```
    static int count;
```

```
    int feet;
```

```
    int inches;
```

```
public:
```

```
    void inputf(int);
```

```
    void inputi(int);
```

```
    int outputf();
```

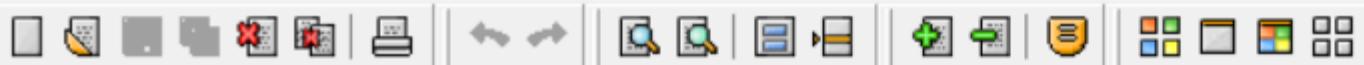
```
    int outputi();
```

```
};
```

```
#endif
```

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

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project2  
Distance.cpp  
Distance.h  
main.cpp

main.cpp Distance.h Distance.cpp

```
14 void Distance::inputi(int i)
15 {
16     while (i > 11)
17     {
18         i = i - 12;
19         this->feet += 1;
20     }
21     while((i<0) && ((this->feet)>0))
22     {
23         this->feet -= 1;
24         i+=12;
25     }
26
27     this->inches = i;
28 }
29
30
31 int Distance::outputf()
32 {
33     return this->feet;
34 }
35 int Distance::outputi()
36 {
37     return this->inches;
38 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\10 march\6q\Pr  
- Output Size: 1.85366249084473 MiB  
- Compilation Time: 1.67s

Line: 24

Col: 25

Sel: 0

Lines: 38

Length: 480

Insert

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

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project2  
Distance.cpp  
Distance.h  
main.cpp

main.cpp Distance.h Distance.cpp

```
1 #include <iostream>
2 #include "Distance.h"
3 #include <iostream>
4
5 using namespace std;
6
7
8 int Distance::count = 0;
9
10 void Distance::inputf(int f)
11 {
12     this->feet = f;
13 }
14 void Distance::inputi(int i)
15 {
16     while (i > 11)
17     {
18         i = i - 12;
19         this->feet += 1;
20     }
21     while((i<0) && ((this->feet)>0))
22     {
23         this->feet -= 1;
24         i+=12;
25     }

```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

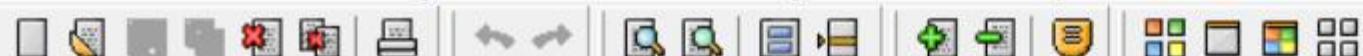
Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\10 march\6q\Pr  
- Output Size: 1.85366249084473 MiB  
- Compilation Time: 1.67s

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

File Edit Search View Project Execute Tools AStyle Window Help



Project Classes Debug

Project2  
Distance.cpp  
Distance.h  
main.cpp

main.cpp Distance.h Distance.cpp

```
1 #ifndef DISTANCE_H
2 #define DISTANCE_H
3
4 class Distance{
5     static int count;
6
7     int feet;
8     int inches;
9
10 public:
11
12     void inputf(int);
13     void inputi(int);
14     int outputf();
15     int outputi();
16
17
18
19
20
21 };
22 #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\10 march\6q\Pr
- Output Size: 1.85366249084473 MiB
- Compilation Time: 1.67s
```

Line: 11

Col: 5

Sel: 0

Lines: 22

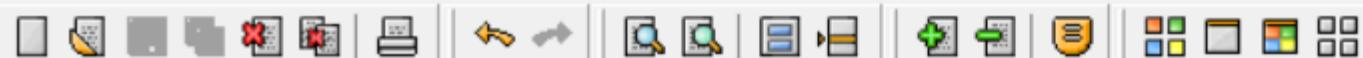
Length: 220

Insert



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

File Edit Search View Project Execute Tools AStyle Window Help



Project Classes Debug

- Project2
  - Distance.cpp
  - Distance.h
  - main.cpp

main.cpp Distance.h Distance.cpp

```
52 cout<<"\n \n do you wish to\n";
53 cin>>k;
54
55
56
57 } while(k!=0);
58 return 0;
59
60
61 }
62
63
64 void details(Distance &p)
65 {
66
67
68
69
70
71
72
73
74
75
76 }
```

```
int i=0,f=0,inch;
cout << "\n\n";
cin >> f;
p.inputf(f);

cout << "\n enter inch";
cin >> inch;
p.inputi(inch);

cout << "\n\n f = " << 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\10 march\6q\Project2\Project2.exe  
- Output Size: 1.85366249084473 MiB  
- Compilation Time: 1.67s

Line: 44

Col: 25

Sel: 0

Lines: 76

Length: 1448

Insert

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

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project2  
Distance.cpp  
Distance.h  
main.cpp

main.cpp Distance.h Distance.cpp

```
38 |           case 2:   f3=p[0].output();
39 |           case 3:   f3=p[0].output();
40 |           default: cout<<"\n invalid choice";
41 |       }
42 |
43 |       p[3].inputf(f3);
44 |       p[3].inputi(i3);
45 |       cout << "\n\n result \n";
46 |
47 |
48 |
49 |
50 |
51 |
52 |       cout<<"\n \n do you wish to";
53 |       cin>>k;
54 |
55 |
56 |
57 |   } while(k!=0);
58 |   return 0;
59 |
60 |
61 |
62 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\10 march\6q\Pr  
- Output Size: 1.85366249084473 MiB  
- Compilation Time: 1.67s

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

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project2  
Distance.cpp  
Distance.h  
main.cpp

main.cpp Distance.h Distance.cpp

```
23          do
24      {
25
26          cout<<"\n\n\n press 1 to add
27          cin>>y;
28          for(i=0;i<2;i++)
29          {
30              details(p[i]);
31
32          }
33
34
35          switch(y)
36      {
37          case 1: f3=p[0].output();
38          case 2: f3=p[0].output();
39          case 3: f3=p[0].output();
40          default: cout<<"\n invalid choice";
41
42
43          p[3].inputf(f3);
44          p[3].inputi(i3);
45          cout << "\n\n result \n";
46
47
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: E:\DEVcpp files\10 march\6q\Project2\Project2.exe  
- Output Size: 1.85366249084473 MiB  
- Compilation Time: 1.67s

Line: 44

Col: 25

Sel: 0

Lines: 76

Length: 1448

Insert

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

File Edit Search View Project Execute Tools AStyle Window Help



(globals)

Project Classes Debug

Project2  
Distance.cpp  
Distance.h  
main.cpp

main.cpp Distance.h Distance.cpp

```
1 #include <iostream>
2 #include <string>
3 #include "Distance.h"
4 using namespace std;
5 void details(Distance&);

6
7 int main()
8 {
9
10    Distance p[3];
11
12
13    int f=0;
14    int inch=0,fsum=0,inchsum=0;
15
16    int s=0,int k=0,int y=0;
17    int i=0;
18    int f3=0,i3=0;
19
20
21
22
23    do
24    {
25
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: E:\DEVcpp files\10 march\6q\Pr
- Output Size: 1.85366249084473 MiB
- Compilation Time: 1.67s
```

Line: 44

Col: 25

Sel: 0

Lines: 76

Length: 1448

Insert

E:\DEVcpp files\10 march\6q\Project2.exe

inches : 11

do you wish to try once again? press 0 if no , else any other number  
1

press 1 to add , 2 to subtract,3 to multiply 2 distance objects  
3

enter feet 3

enter inches 2

feet: 3  
inches : 2

enter feet 1

enter inches 6

feet: 1  
inches : 6

result

feet: 4  
inches : 0

do you wish to try once again? press 0 if no , else any other number  
0

-----  
Process exited after 63.26 seconds with return value 0  
Press any key to continue . . .

```
E:\DEVcpp files\10 march\6q\Project2.exe
do you wish to try once again? press 0 if no , else any other number
1

press 1 to add , 2 to subtract,3 to multiply 2 distance objects
2

enter feet  4
enter inches  5

feet: 4
inches : 5

enter feet  1
enter inches  6

feet: 1
inches : 6

result

feet: 2
inches : 11

do you wish to try once again? press 0 if no , else any other number
1

press 1 to add , 2 to subtract,3 to multiply 2 distance objects
3

enter feet  3
enter inches  2
```

E:\DEVcpp files\10 march\6q\Project2.exe

```
press 1 to add , 2 to subtract,3 to multiply 2 distance objects
```

```
1
```

```
enter feet 4
```

```
enter inches 6
```

```
feet: 4
```

```
inches : 6
```

```
enter feet 4
```

```
enter inches 5
```

```
feet: 4
```

```
inches : 5
```

```
result
```

```
feet: 8
```

```
inches : 11
```

```
do you wish to try once again? press 0 if no , else any other number
```

```
1
```

```
press 1 to add , 2 to subtract,3 to multiply 2 distance objects
```

```
2
```

```
enter feet 4
```

```
enter inches 5
```

```
feet: 4
```

```
inches : 5
```









