UNIVERSITY OF SARGODHA

LAHORE CAMPUS



Final Booklet of Lab Work

Submitted to:

Sir Saqib Ahmad

Semester:

2nd

Section:

A

Submitted By:

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BSCS-F17-LC-300

Week 1

```
1-Program Code:
#include<iostream>
using namespace std;
class A{
      private:
            int a;
            public:
            A(){
                  a=5;
            friend class oop;
};
class oop{
      public:
            void show(A b)
                  cout<<"b=""<<b.a;
};
int main(){
      A c;
      oop d;
      d.show(c); }
```

Output:

Compilation results...

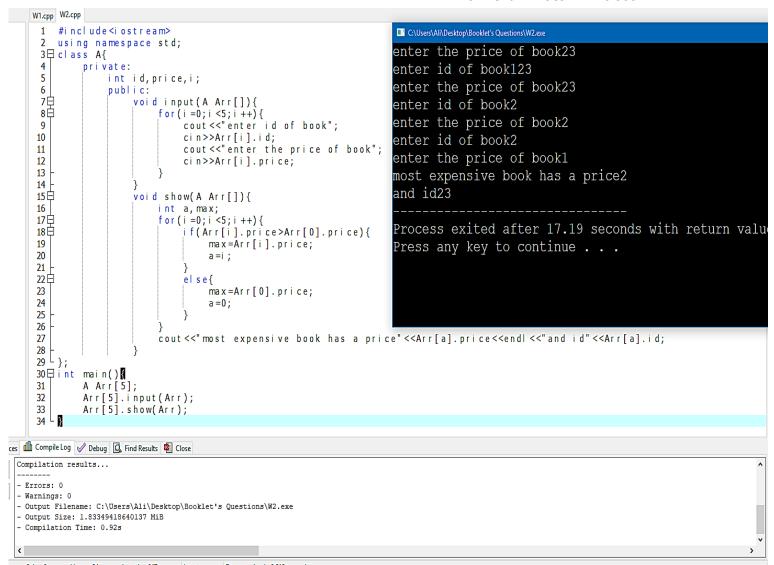
- Output Filename: C:\Users\Ali\Desktop\Booklet's Questions\Wl.exe

- Warnings: 0

```
W1.cpp
        #include<iostream>
                                              C:\Users\Ali\Desktop\Booklet's Questions\W1.exe
     2 using namespace std; 3 \stackrel{\square}{\vdash} \text{class A} \{
                                             b=5
              private:
                    int a;
                                             Process exited after 0.04481 seconds with return
     6
                    public:
                                             Press any key to continue \ldots .
     7申
                    A(){
     8
                          a = 5;
     9
     10
                    friend class oop;
    11 └ };
    12 p c i ass oop{
              public:
                    void show (Ab)
    14
    15申
    16
                          cout <<" b=" <<b. a;
     17
    18 <sup>⊥</sup> };
    19 pint main() {
              Ac;
    20
    21
              oop d;
    22
              d.show(c); }
    23
ces 📶 Compile Log 🥒 Debug 🗓 Find Results 🛍 Close
```

2-Program:

```
#include<iostream>
using namespace std;
class A{
     private:
           int id, price, i;
           public:
                void input(A Arr[]){
                     for(i=0;i<5;i++){
                           cout<<"enter id of book";</pre>
                           cin>>Arr[i].id;
                           cout<<"enter the price of book";</pre>
                           cin>>Arr[i].price;
                      }
                void show(A Arr[]){
                     int a, max;
                     for(i=0;i<5;i++){
                           if(Arr[i].price>Arr[0].price){
                                max=Arr[i].price;
                                 a=i;
                           }
                           else{
                                max=Arr[0].price;
                                 a=0;
                           }
                     cout<<"most expensive book has a
price"<<Arr[a].price<<endl<<"and id"<<Arr[a].id;
                }
};
int main(){
     A Arr[5];
     Arr[5].input(Arr);
     Arr[5].show(Arr);
Output
```



Week 2

1-Program:

```
#include<iostream>
using namespace std;
class A{
    private:
        int m=0;
        protected:
        int n=0;
        public:
        int p=0;
        void B()
        {
            m++;
            n++;
            p++;
        }
```

}

```
};
 class oop:public A{
        public:
                void show(){
                cout<<n;
                cout<<p;
        }
 };
int main(){
        oop o1;
        o1.show();
        01.B();
        o1.show();
 Output:
W1.cpp W2.cpp Weak 2(1).cpp
    #include<iostream>
                                   ■ C:\Users\Ali\Desktop\Booklet's Questions\Weak 2(1).exe
    using namespace std;
                                  0011
 3⊟ class A{
        private:
 5
             int m=0;
                                  Process exited after 0.03879 seconds with return value 0
 6
             protected:
                                  Press any key to continue . . .
 7
                 int n=0;
 8
                  public:
                 int p=0;
 9
10
                  void B()
11 🛱
12
                      m++;
13
                      n++;
14
                      p++;
15
16 <sup>L</sup> };
17 □ class oop: public A{
18
        public:
19 🛱
             void show(){
             cout <<n;
20
21
             cout <<p;
22
  L };
23
25
        oop o1;
26
        o1.show();
27
        o1.B();
28
        o1.show();
29
30
```

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 $[Warning] \ non-static \ data \ member \ initializers \ only \ available \ with \ -std=c++11 \ or \ -std=gnu++11 \ or \ -std$

 $[Warning]\ non-static\ data\ member\ initializers\ only\ available\ with\ -std=c++11\ or\ -std=gnu++11$

li\Desktop\Booklet's Questions\Weak 2(1).cpp [Warning] non-static data member initializers only available with -std=c++11 or -std=gnu++11

li\Desktop\Booklet's Questions\Weak 2(1).cpp

li\Desktop\Booklet's Questions\Weak 2(1).cpp

2-Program:

```
#include<iostream>
using namespace std;
class A{
     private:
           int m=0;
           protected:
                 int n=0;
                 public:
                 int p=0;
                  void B()
                  {
                       m++;
                       n++;
                       p++;
                  }
};
class oop:private A{
     public:
           void show(){
           cout<<n;
           cout<<p;
      }
};
int main(){
      A 01;
      oop o2;
     o2.show();
      o1.B();
      o2.show();
}
```

Output:

```
W1.cpp W2.cpp Weak 2(1).cpp Weak 2(2).cpp
           #include<iostream>
                                               ■ Select C:\Users\Ali\Desktop\Booklet's Questions\Weak 2(2).exe
       2 using namespace std;
3 □ class A{
                                              0000
                private:
       5
                     int m=0;
                                              Process exited after 0.03761 seconds with return value 0
                      protected:
       6
                                              Press any key to continue . . .
       7
                           int n=0;
       8
                           public:
                           int p=0;
       9
                           void B()
      10
      11 🛱
      12
                                m++;
      13
                                n++;
      14
                                p++;
      15
      17 □ class oop:private A{
      18
                public:
      19 🛱
                     void show() {
      20
                      cout <<n;
      21
                     cout <<p;
      22
23 };
      24 □ int main(){
                A o1;
oop o2;
      26
      27
                o2.show();
      28
                o1.B();
      29
                o2. show();
      30
      31
sources 🛍 Compile Log 🤣 Debug 🚨 Find Results 🐉 Close
\li\Desktop\Booklet's Questions\Weak 2(2).cpp [Warning] non-static data member initializers only available with -std=c++11 or -std=gnu++11
\li\Desktop\Booklet's Questions\Weak 2(2).cpp [Warning] non-static data member initializers only available with -std=c++11 or -std=gnu++11
\li\Desktop\Booklet's Questions\Weak 2(2).cpp [Warning] non-static data member initializers only available with -std=c++11 or -std=gnu++11
  3-Program:
  #include<iostream>
  using namespace std;
  class A{
            public:
                     void show(){
                              cout<<"i love"<<"\t";
                     }
  };
  class B:public A{
            public:
                     void display(){
                              cout<<"pakistan";
                     }
  };
  int main(){
            B o1;
            o1.show();
            o1.display();
```

}

class B:public A{
 public:

class C:public B{
 public:

};

};

int main(){

C o1;

o1.show();
o1.pro();

void display(){

void pro(){

}

cout<<"pakistan";</pre>

cout<<''love''<<''\t'';

```
Output:
     W1.cpp W2.cpp Weak 2(1).cpp Weak 2(2).cpp Weak 2(3).cpp
          #include<iostream>
                                                            pakistan
      2 using namespace std;
3 pclass A ¶
                                                  Process exited after 0.03951 seconds with return value 0
                 public:
                                                  Press any key to continue . .
                        void show() {
    cout <<"i
      9 pclass B: public A{
     10
                 public:
                        void display(){
    cout << "pakistan";</pre>
     11 掉
     13
     14 \ };
     15 pint
                 main(){
     16
                 B o1;
     17
                 o1.show();
                 o1. display();
     18
     19 }
ces 📶 Compile Log 🥒 Debug 🔼 Find Results 🍇 Close
 Compilation results...
 ------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\hli\Desktop\Booklet's Q:
- Output Size: 1.83281230926514 MiB
- Compilation Time: 1.16s
       4-Program:
       #include<iostream>
       using namespace std;
       class A{
               public:
                        void show(){
                                cout<<"i"<<"\t";
       };
```

o1.display();

};

};

int main(){

class C:public A{
 public:

C o1; B o2; o1.pro(); o1.show(); o2.display();

void pro(){

cout<<"love ";//<<"\t";}

```
}Output:
    W1.cpp W2.cpp Weak 2(1).cpp Weak 2(2).cpp Weak 2(3).cpp Weak 2(4).cpp
         #include<iostream>
         using namespace std;
                                                                  love
                                                                             pakistan
      3 pclass A{
      4
               public:
                                                       Process exited after 0.03864 seconds with return value 0
      5 🖨
                     void show() {
    cout <<"i" " <<"\t";
                                                       Press any key to continue .
      6
      7
      8 <sup>L</sup> };
      9⊟class B:public A{
     10
               public:
                     void display(){
     11 🛱
                           cout << "paki stan";
     12
     13
     14 \ };
     15 □ class C: public B{
     16
               public:
                     voi d pro() {
    cout <<"love" <<"\t";</pre>
     17 垣
     18
     19
     20 \ };
     21 ⊟ int
               main() {
               C o1;
     22
     23
               o1.show();
     24
               o1.pro();
     25
               o1. display();
        L }
     26
ces 🋍 Compile Log 🤣 Debug 🗓 Find Results 🐉 Close
 Compilation results...
  Warnings: 0
  Output Filename: C:\Users\Ali\Desktop\Booklet's Questions\Weak 2(4).exe
Output Size: 1.83299732208252 MiB
Compilation Time: 1.09s
     5-Program:
     #include<iostream>
     using namespace std;
     class A{
             public:
                      void show(){
                               cout<<"is great"<<"\t";}</pre>
     };
     class B:public A{
             public:
                      void display(){
                               cout<<"pakistan ";//"\t";}
```

```
o2.show();
     }
     Output:
    C:\Users\Ali\Desktop\Booklet's Questions\Weak 2(5).exe
        #include<iostream>
                                                                  great pakistan is great
                                                        love is
        using namespace std;
      3 pclass A{
      4
              public:
                                                        Process exited after 0.03892 seconds with return value 0
      5 🖨
                   void show() {
                                                        Press any key to continue . . .
                                       great " << " \ t " ;
      6
                        cout <<"is
      7
      8 <sup>\ </sup>};
      9 □ class B: public A{
     10
              public:
     11白
                   void display(){
                        cout << "paki stan "; / / " \ t ";
     12
     13
     14 <sup>L</sup> };
     15 □ class C: public A{
     16
              public:
                   void pro() {
    cout <<"love ";// <<" \ t ";</pre>
     17白
     18
     19
     20 <sup>L</sup> };
     21 □ int main() {
     22
              C o1;
     23
              B o2;
     24
              o1.pro();
     25
              o1.show();
     26
              o2. display();
              o2.show();}
urces dll Compile Log 🤣 Debug 🗓 Find Results 🍇 Close
 Compilation results...
  - Warnings: 0
- Output Filename: C:\Users\Ali\Desktop\Booklet's Questions\Weak 2(5).exe
   Output Size: 1.83299732208252 MiB
     6-Program:
     #include<iostream>
     using namespace std;
     class A{
             public:
                     void show(){
                             cout<<"i"<<"\t";
                                                            }};
     class B:virtual public A{
             public:
                     void display(){
                             cout<<"Programming"<<"\t";</pre>
                                                                            }};
     class C:virtual public A{
             public:
                     void pro(){
                             cout<<''love''<<''\t'';}};
     class D:public C,public B{
             public:
             void meh(){
                     cout<<''A''<<''\t'';}};
     int main(){
```

```
D o1;
o1.meh();
o1.show();
o1.pro();
o1.display();
```

Output:

```
W1.cpp W2.cpp Weak 2(1).cpp Weak 2(2).cpp Weak 2(3).cpp Weak 2(4).cpp Weak 2(5).cpp Weak 2(6).cpp
         #include<iostream>
                                                                Select C:\Users\Ali\Desktop\Booklet's Questions\Weak 2(6).exe
          using namespace std;
      3⊟ class A{
                                                                                         love
                                                                                                      Programming
               public:
                     5 🖨
                                                               Process exited after 0.03881 seconds with return value 0
                                                               Press any key to continue . . .
      8<sup>[</sup>};
9早class B:virtual public A{
                public:
     10
     11 🖨
                    void display(){
| cout<<"Programming"<<"\t";
     14 L };
     15 □ class C: virtual public A{
               public:
     16
                     void pro() {
| cout <<"love" <<"\t";
     18
     19
     20 L };
     21 □ class D: public C, public B{
                public:
                voi d meh() {
        cout <<" A" <<" \ t " ;
     24
     25
     26 \ \};
     27 □ int main() 【
                D 01;
     29
                o1. meh();
                o1.show();
     30
     31
               o1.pro();
o1.display();
ces 🋍 Compile Log 🤣 Debug 🗓 Find Results 🐉 Close
 Compilation results...
 - Errors: 0
- Warnings: 0
 - Output Filename: C:\Users\Ali\Desktop\Booklet's Questions\Weak 2(6).exe - Output Size: 1.83518695831299 MiB
  - Compilation Time: 0.94s
```

Week 3

```
1-Program:
#include<iostream>
using namespace std;
class A{
      protected:
            int a;
            public:
                  A(){
                        a=10;
                                           }};
class B:public A{
      private:
            int b;
            public:
                  B():A(){
                        b=20;
                                           }
```

```
void show(){
                                       cout<<"a="<<a<endl;
                                       cout<<"b="'<<b<endl;
                                                                                            }};
   int main(){
             B o1;
            o1.show();
                                       }
    Output:
    W1.cpp | W2.cpp | Weak 2(1).cpp | Weak 2(2).cpp | Weak 2(3).cpp | Weak 2(4).cpp | Weak 2(5).cpp | Weak 2(6).cpp | Weak 3(1).cpp
      1 #include<iostream>
2 using namespace std;
3 pclass A{
                                                    C:\Use
                      ected
int a;
public:
    A(){
                protected:
                                                     Process exited after 0.03922 seconds with return value 0 Press any key to continue . . .
                                     a = 10; }};
                    B: public
                       int 5,
public:
B():A(){
b=20;
     11
                       int
     12
13 □
     14
                               ,
voi d show() {
     cout <<" a =" <<a <<endl;
     cout <<" b =" <<b <<endl; };</pre>
     16 ₽
     17
18
                main() {
     19 pint
                 B o1;
                o1.show();}
Neinings: O:\Users\Ali\Desktop\Booklet's Questions\Weak 3(1).ex
Output Size: 1.83266448974609 MIB
Compilation Time: 0.92s
    2-Program:
    #include<iostream>
    using namespace std;
    class A{
             protected:
                     int a;
                     public:
                              A(){
                                       a=10;
                              A(int x){
                                       a=x; }};
    class B:public A{
            private:
                     char b;
                     public:
                              B():A(){
                                       b='t'; }
                              B(char y,int m):A(m)
                                       b=y;}
                              void show(){
                                       cout<<"a="<<a<endl;
                                       cout<<"b=""<<b<endl;}};
```

```
int main(){
              B o1('u',10);
              o1.show();
                                        }
      Output:
    W1.cpp W2.cpp Weak 2(1).cpp Weak 2(2).cpp Weak 2(3).cpp Weak 2(4).cpp Weak 2(5).cpp Weak 2(6).cpp Weak 3(1).cpp Weak 3(2).cpp
         #include<iostream>
                                                     C:\Users\Ali\Desktop\Booklet's Questions\Weak 3(2).exe
        using namespace std;
                                                     a = 10
      3 plass A{
                                                     b=11
                protected:
      5
                     int a;
      6
                      public:
                                                     Process exited after 0.03961 seconds with return value 0
      7₽
                            A(){
                                                     Press any key to continue . . .
      8 L
                                  a = 10;
                                              }
      9 🛭
                            A(int x){
     10
                                             }};
                                  a = x;
     11 pclass B: public A{
     12
                private:
     13
                     char b;
                      public:
     14
     15 □
                            B(): A()
     16 <sup>L</sup>
                                  b='t';
     17 □
                            B(char y, int m): A(m) {
     18 <sup>[</sup>
                                 b = y; 
     19 □
                            void show() {
        cout <<" a = " << a << end l ;
     20
                                  cout <<" b=" <<b<<end1; }};
     21 L
     22 | int main() {
23 | Bo1('u'
                           ,10);
                                        }
     24
                o1.show();
rces 📶 Compile Log 🥒 Debug 🗓 Find Results 🍇 Close
 Compilation results...
  - Errors: 0
 - Warnings: 0
- Output Filename: C:\Users\Ali\Desktop\Booklet's Questions\Weak 3(2).exe
- Output Size: 1.83266830444336 MiB
   Compilation Time: 0.94s
      3-Program:
      #include<iostream>
      using namespace std;
      class Parent{
               private:
                       int n=10;
                       public:
                                void show(){
                                        cout<<"n="<<n<<endl;
                                                                                   }};
      class child:public Parent{
              private:
                       int b=15;
                       public:
                                void show(){
                                        Parent::show();
                                        cout<<"b="'<<b;
                                                                           }};
      int main(){
               child o1;
```

```
o1.show(); }
Output:
```

```
W1.cpp W2.cpp Weak 2(1).cpp Weak 2(2).cpp Weak 2(3).cpp Weak 2(4).cpp Weak 2(5).cpp Weak 2(6).cpp Weak 3(1).cpp Weak 3(2).cpp Weak 3(3).cpp
      1 #include<iostream>
                                                     C:\Users\Ali\Desktop\Booklet's Questions\Weak 3(3).exe
      2 using namespace std;
                                                     n=10
      3 pclass Parent{
                                                     b = 15
      4
                 private:
      5
                        int n=10;
                                                     Process exited after 0.03493 seconds with re
      6
                        public:
                                                     Press any key to continue . . .
      7₽
                               void show(){
      8
                                      cout <<" n = " << n << e n d l ; } };
      9¢class child:public Parent{
                 private:
     10
     11
                        int b=15;
     12
                        public:
                               void show(){
     13 ₽
                                      Parent::show();
     14
                                      cout <<" b = " << b; } };
     15
     16 pint main() {
     17
                 child o1;
                 o1.show();
     18
     19
sources 🛍 Compile Log 🧳 Debug 🗓 Find Results 🖏 Close
\li\Desktop\Booklet's Questions\Weak 3(3).cpp [Warning] non-static data member initializers only available with -std=c++11 or -std=gnu++11
\li\Desktop\Booklet's Questions\Weak 3(3).cpp [Warning] non-static data member initializers only available with -std=c++11 or -std=gnu++11
        Lines: 19 Length: 304
    4-Program:
    #include<iostream>
    using namespace std;
    class Parent{
            private:
                    int n=10;
                    public:
                           void show(){
                                   cout<<"n="<<n<<endl;
                                                                          }};
    class child:public Parent{
            private:
                    int b=15;
                    public:
                            void show(){
```

```
Parent::show();
                                     cout<<"b="<<b<endl;
                                                                               }};
    class child1:public child{
            private:
                     int c=20;
                     public:
                             void show(){
                                     child::show();
                                     cout<<"c="<<c; }};
    int main(){
            child1 o1;
            o1.show(); }
    Output:
                                                 C:\Users\Ali\Desktop\Booklet's Questions\Weak 3(4).exe
     Weak 3(4).cpp
                                                b=15
      1 #include < iostream>
         using namespace std;
                                                 c = 20
      3 piclass Parent{
                private:
                                                Process exited after 0.03503 seconds with return
       5
                     int n=10;
      6
                      public:
                                                Press any key to continue \ldots .
                            void show(){
      7₽
      8 L
                                 cout <<" n =" <<n << endl; }};
      9 pclass child: public Parent{
      10
                private:
      11
                     int b=15;
      12
                      public:
      13 □
                            void show(){
                                 Parent::show();
cout <<"b=" <<b<<endl;}};
      14
      15
      16 pclass child1: public child{
                private:
      17
      18
                     int c=20;
      19
                      public:
      20 □
                            void show(){
                                 child::show();
cout <<" c =" <<c;
      21
      22
                                                         }};
      23 pint main() {
      24
                child1 o1;
      25
                o1.show();
esources 📶 Compile Log 🧳 Debug 🔼 Find Results 🤻 Close
Ali\Desktop\Booklet's Questions\Weak 3(4).cpp [Warning] non-static data member initializers only available with -std=c++11 or -std=gnu++11
                        [Warning] non-static data member initializers only available with -std=c++11 or -std=gnu++11
Ali\Desktop\Booklet's Questions\Weak 3(4).cpp
Ali\Desktop\Booklet's Questions\Weak 3(4).cpp
                        [Warning] non-static data member initializers only available with -std=c++11 or -std=gnu++11
    5-Program:
    #include<iostream>
    using namespace std;
    class A{
            public:
                     virtual void disp()=0;};
    class B:public A{
                     int b;
                     public:
                             B(int x){
```

```
b=x;
                                  void disp()
                                  {cout<<"Class B and b"<<b;}};
     class C:public A{
                   int c;
                   public:
                           C (int x)
                                  c=x;
                                  void disp(){cout<<"Class C and c="<<c;}};</pre>
    int main(){
            A *p;
            B o1(10);
            C o2(20);
            p = \&o1;
            p->disp();
            p = \&o2;
            p->disp(); }
     Output:
   Weak 3(4).cpp Weak 3(5).cpp Untitled2 Untitled3
       #include<iostream>
                                                  ■ C:\Users\Ali\Desktop\Booklet's Questions\Weak 3(5).exe
        using namespace std;
                                                  Class B and b10Class C and c=20
     3 pclass A{
             public:
                  virtual void disp()=0;}; Process exited after 0.04747 seconds with return value 0
     6 pclass B: public A{
                                                  Press any key to continue . . .
     7
                  int b;
                  public:
     8
                       B(int x){
     9 🗇
    10
                            b=x;}
void disp()
{cout << "Class B and b" << b;}};
    11
    12
    13 pclass C: public A{
    14
                  int c;
    15
                  public:
    16
17
                       C (int x){
                            c = x; }
void disp() {cout << "Class C and c = " << c; }};</pre>
    18
    19 int main() {
20 A *p;
21 B o1(10);
    22
             C o2(20);
    23
             p = & o 1;
             p->disp();
    24
    25
             p = & o 2;
rces 📶 Compile Log 🥒 Debug 🗓 Find Results 🍇 Close
 Compilation results...
 6-Program:
     #include<iostream>
     using namespace std;
```

class A{

private:

```
int a;
                      public:
                              A(int z){a=z;}
                              void show(){
                                      cout<<a<<endl;}};
      class B:public A{
              private:
                      int b;
                      public:
                              B(int x, int m):A(m){b=x;}
                              void show(){
                                      A::show();cout<<b<<endl;}};
      class C:public B{
              private:
                      int c;
                      public:
                              C(int y,int f, int h):B(f,h)\{c=y;\}
                              void show(){B::show();cout<<c;}};</pre>
     int main(){
              C ob(12,23,34);
              ob.show();}
      Output:
     Weak 3(4).cpp | Weak 3(5).cpp | [*] Untitled2 | Weak 3(6).cpp | [*] Quiz.cpp
       1 #include<iostream>
         using namespace std;
                                                           C:\Users\Ali\Desktop\Booklet's Questions\Weak 3(6).exe
       3 pclass A{
                                                          23
       4
                private:
                                                          12
       5
                      int a;
                      public:
       6
                                                          Process exited after 0.0391 seconds with return value 0
       7
                           A(int z){a=z;}
                                                          Press any key to continue .
       8 🗏
                           void show(){
       9 Ľ
                                 cout <<a << endl; } };
      10  class B: public A{
      11
                private:
      12
                     int b;
      13
                      public:
                           B(int x, int m): A(m) \{b=x;\}
      14
                           void show() {
      15 □
      16 <sup>[</sup>
                                 A::show();cout <<b<<endl;}};
      17 □ class C: public B{
      18
                private:
      19
                     int c;
      20
                      public:
                           C(int y, int f , int h): B(f, h) {c = y;}
      21
                           voi d show() { B: : show(); cout <<c; } };</pre>
      22
      23 pint main() {
      24
                C ob(12, 23, 34);
      25
                ob. show();}
ources 📶 Compile Log 🤣 Debug 🗓 Find Results 🝇 Close
  Compilation results...
   - Errors: 0
  - Warnings: 0
- Output Filename: C:\Users\Ali\Desktop\Booklet's Questions\Weak 3(6).exe
- Output Size: 1.83368492126465 MiB
- Compilation Time: 1.23s
```

7-Program:

```
#include<iostream>
using namespace std;
class Base{
protected:
int a;
public:
Base(){a=10;}};
class Derived:public Base{
int b;
public:
Derived(){b=20;}
void show(){
cout<<a<<endl<<b<<endl;}};
int main(){Derived a1;a1.show();system("pause>0");}
```

Output:

Compilation Time: 0.95s

```
Weak 3(4).cpp | Weak 3(5).cpp | [*] Untitled2 | Weak 3(6).cpp | constructor in inheritance (default.cpp
     1 #include<iostream>
                                               C:\Users\Ali\AppData\Local\Temp\Rar$Dla5468.12385\constructor in inheritance (default.exe
                                               10
     2 using namespace std;
                                               20
     3 delass Base{
     4 protected:
     5 int a;
                                               Process exited after 43.39 seconds with retu
     6 public:
                                               Press any key to continue . . .
     7 Base(){a=10;}};
     8¢class Derived: public Base{
     9 int b;
    10 public:
    11 Derived() { b = 20; }
    12 pvoid show() {
    13^{\perp} cout <<a << end | << b << end | ; } };
    14 int main(){Derived a1; a1.show(); system("pause>0");}
ces 📶 Compile Log 🧳 Debug 🗓 Find Results 🤻 Close
Compilation results...
 - Errors: 0
 - Warnings: 0
  Output Filename: C:\Users\Ali\AppData\Local\Temp\Rar$DIa5468.12385\constructor in inheritance (default.exe
  Output Size: 1.83292770385742 MiB
```