- Interface definition begins with a keyword interface.

```
interface SomeName
{


}
```

- Interfaces just specify the method declaration (implicitly public and abstract) and can only contain fields (which are implicitly public static final).

```
interface SomeName
{
  int x;
  void someFunction();
}
```

```
interface I1{
 void someFunction();
}
class A implements I1 {
 public void someFunction(){
  //some code
 }
}
```

- An interface like that of an abstract class cannot be instantiated.
- Interface do not have constructors.

Interface

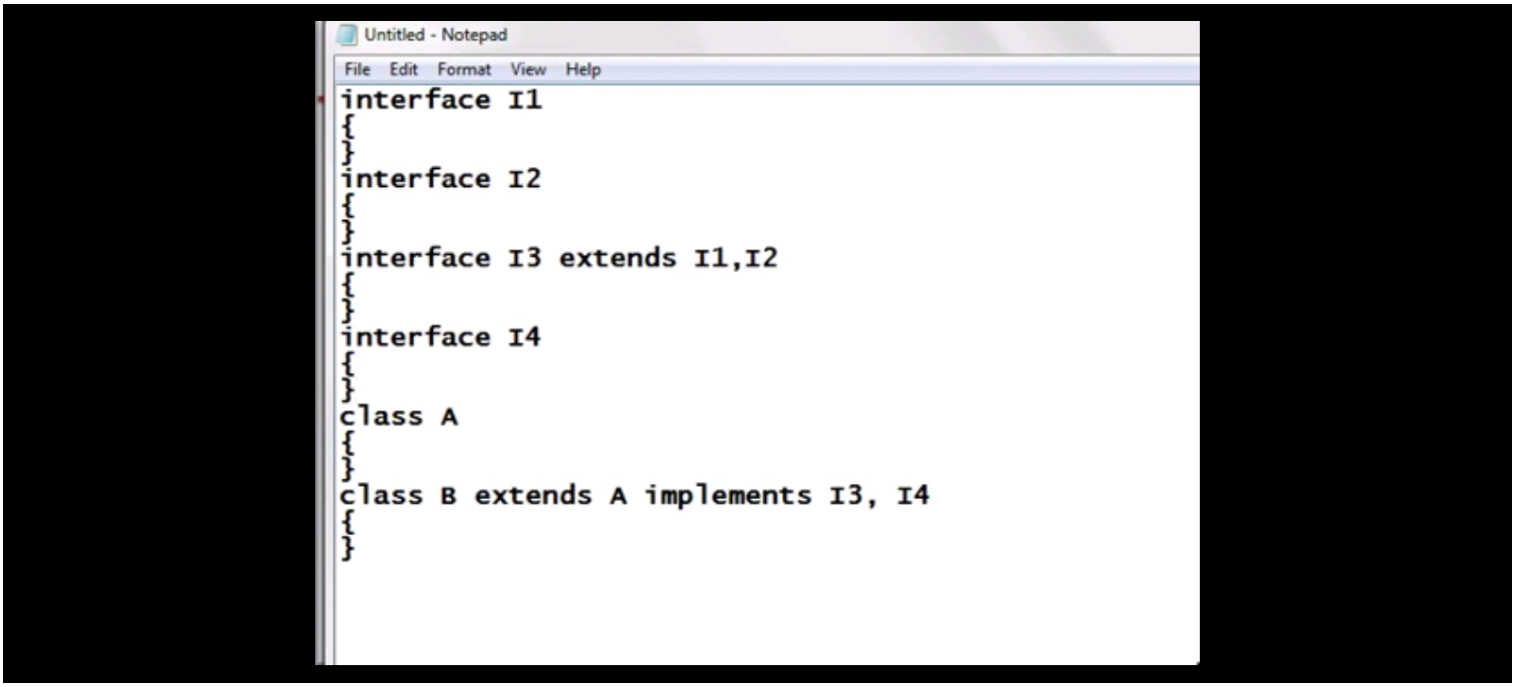
- If a class that implements an interface does not define all the methods of the interface, then it must be declared abstract and the method definitions should be provided by the subclass that extends the abstract class.

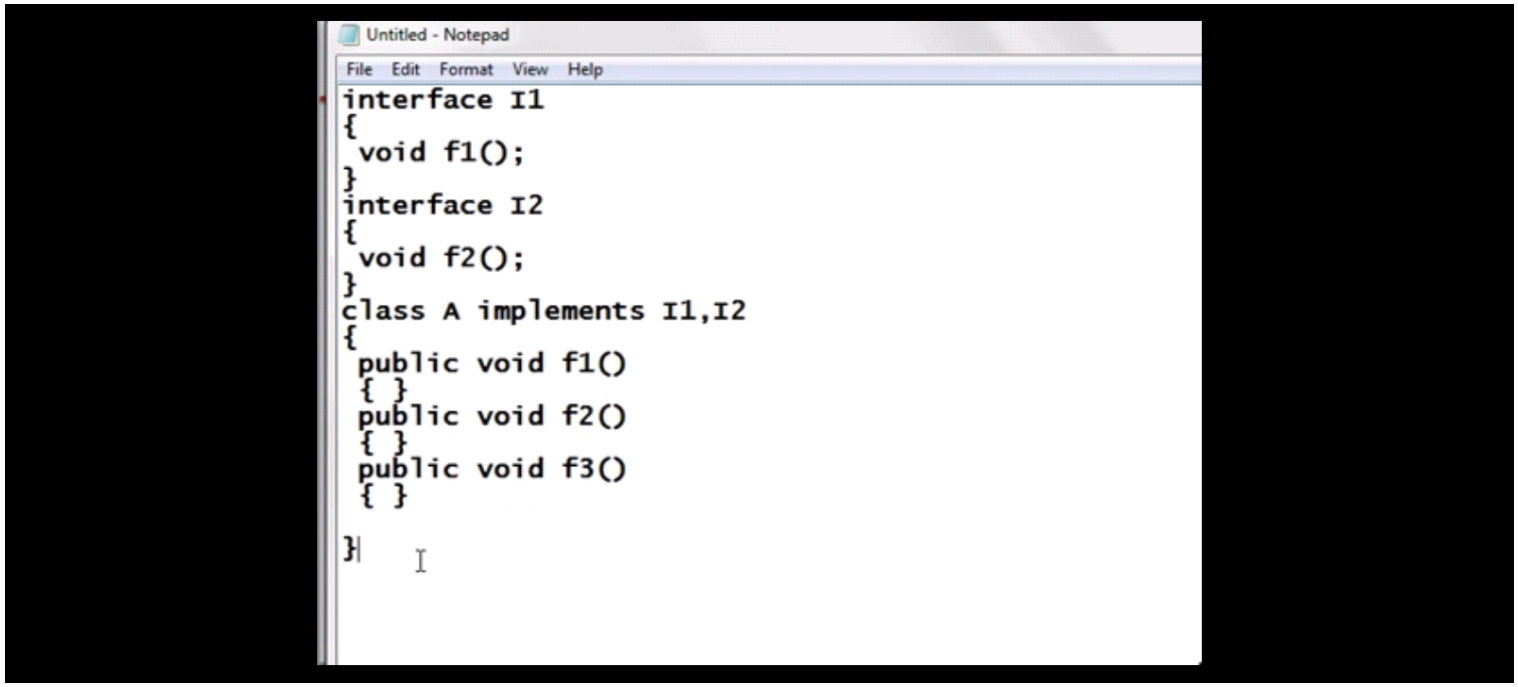
Example

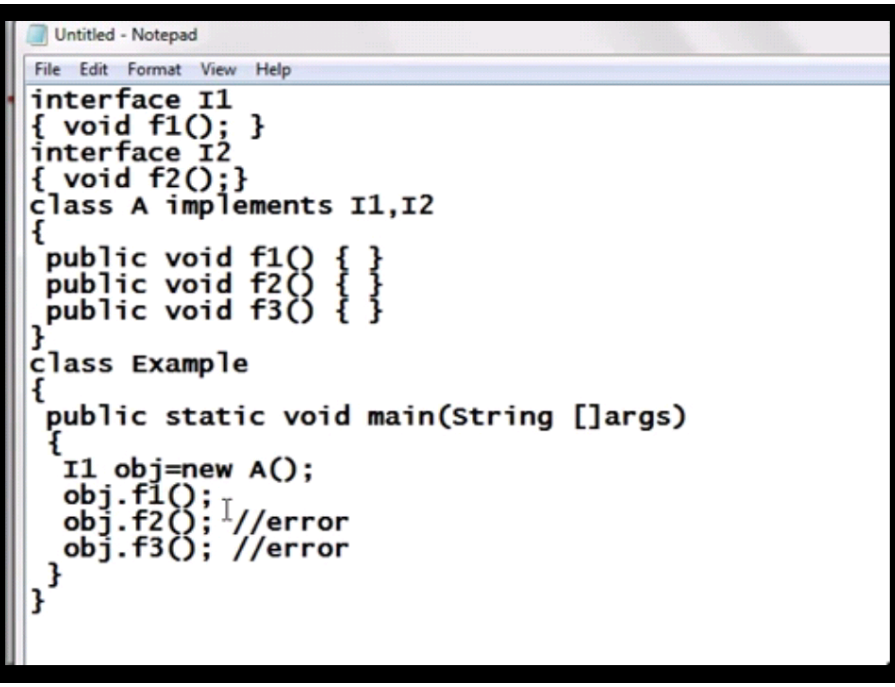
```
interface Admission
{
 int registration();
 int batchAllotment();
 int iCardGeneration();
}
```

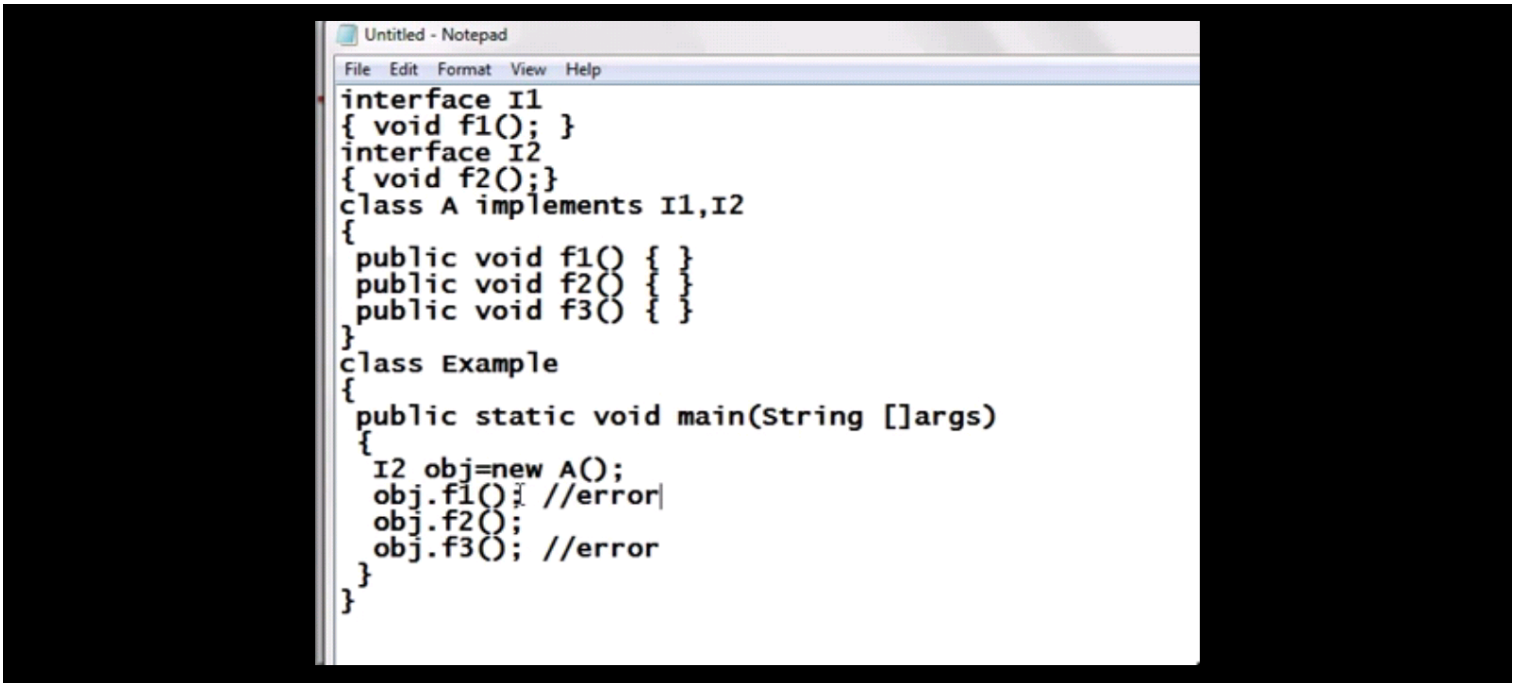
Extending and implementing

- Multiple extension is allowed when extending interfaces i.e. one interface can extend none, one or more interfaces.


Untitled - Notepad
File Edit Format View Help
interface I1
{
}
interface I2
{
}
interface I3 extends I1,I2
{
}
interface I4
{
}
class A
{
}
class B extends A implements I3, I4
{
}


Untitled - Notepad
File Edit Format View Help
interface I1
{
void f1();
}
interface I2
{
void f2();
}
class A implements I1,I2
{
public void f1()
{ }
public void f2()
{ }
public void f3()
{ }
}


Untitled - Notepad
File Edit Format View Help
interface I1
{ void f1(); }
interface I2
{ void f2();}
class A implements I1,I2
{
public void f1() { }
public void f2() { }
public void f3() { }
}
class Example
{
public static void main(String []args)
{
I1 obj=new A();
obj.f1();
obj.f2(); //error
obj.f3(); //error
}
}


Untitled - Notepad
File Edit Format View Help
interface I1
{ void f1(); }
interface I2
{ void f2();}
class A implements I1,I2
{
public void f1() { }
public void f2() { }
public void f3() { }
}
class Example
{
public static void main(String []args)
{
I2 obj=new A();
obj.f1(); //error
obj.f2();
obj.f3(); //error
}
}

Object Reference

- You can not create object of any interface but creation of object reference is possible.
- Object reference of interface can refer to any its subclass type.