

```
class Gen <I, S, F>
{
```

```
    I ob1;
```

```
    S ob2;
```

```
    F ob3;
```

```
    Gen (I o1, S o2, F o3)
    {
```

```
        ob1 = o1;
```

```
        ob2 = o2;
```

```
        ob3 = o3;
    }
```

```
    void showTypes ()
    {
```

```
        System.out.println("Type of I is " + ob1.
                               getClass().getName());
```

```
        System.out.println("Type of S is " + ob1.
                               getClass().getName());
```

```
        System.out.println("Type of F is " + ob1.
                               getClass().getName());
    }
```

```
    I getob1()
    {
```

```
        return ob1;
    }
```

```
    S getob2()
    {
```

```
        return ob2;
    }
```

```
    F getob3()
    {
```

```
        return ob3;
    }
```

```
}
```



```
class MainGen
```

```
{  
    public static void main (String args [])
```

```
{  
        Gen <Integer, String, Float> tObj =  
        new Gen <Integer, String, Float> (123, "Generics", 99.9f);  
        tObj.showTypes();  
        int a = tObj.getObj1();  
        String b = tObj.getObj2();  
        Float c = tObj.getObj3();  
        System.out.println ("Integer value is : "+a  
        "In String value is : "+b "In Float value is : "+c);  
    }  
}
```



```
import java.util.*;  
class WrongAge extends Exception {  
    int age;  
    WrongAge (int x) {  
        age = x;  
    }  
    public String toString () {  
        return "Age entered is incorrect";  
    }  
}
```

```
class father {  
    int a;  
    father (int x) {  
        a = x;  
    }  
}
```

```
class son extends father {  
    int age;  
    son (int fage, int sage) {  
        super (fage);  
        age = sage;  
    }  
}
```

```
void check () throws WrongAge {  
    if (age >= a || age < 0 || a < 0) {  
        throw new WrongAge (age);  
    }  
    else {
```

```
        System.out.println ("Correct ages entered" in "Father  
        age : " + a + "\n" + "Sons age" + age);  
    }  
}
```



```
class ExceptionsMain {  
    public static void main (String args []) {  
        Scanner sc = new Scanner (System.in);  
        System.out.println ("Enter fathers age and sons  
age");  
        int f = sc.nextInt();  
        int s = sc.nextInt();  
        son ss = new son (f, s);  
        try {  
            ss.check ();  
        }  
        catch (WrongAge e) {  
            System.out.println (" " + e);  
        }  
    }  
}
```