

Week 10 -lab 7 &8 program

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```
class GENERICSC<F,S>
{
    F object1;
    S object2;

    GENERICSC(F O1,S O2)
    {
        object1=O1;
        object2=O2;
    }
    void printname()
    {
        System.out.println("Type of object 1 is "+object1.getClass().getName());
        System.out.println("Type of object 2 is "+object2.getClass().getName());
    }
    F getob1()
    {
        return object1;
    }
    S getob2()
    {
        return object2;
    }
}

public class DGenerics
{
    public static void main(String args[])
    {
        GENERICSC<Float,String> G1=new GENERICSC<Float,String>(10f,"CGPA");
        G1.printname();
        float FL=G1.getob1();
        System.out.println("The number given to object 1 is"+FL);
        String ST=G1.getob2();
        System.out.println("The detail given to object 2 is"+ST);
    }
}
```

```
}  
}
```

```
C:\Users\asus\Downloads>javac DGenerics.java  
C:\Users\asus\Downloads>java DGenerics  
Type of object 1 is java.lang.Float  
Type of object 2 is java.lang.String  
The number given to object 1 is 10.0  
The detail given to object 2 is GPA  
C:\Users\asus\Downloads>
```

```
class Father  
{  
  
    static void acceptNameF(int inputAge) throws ArithmeticException  
    {  
        try  
        {  
            if(inputAge<0)  
                throw new ArithmeticException("Wrong Age");  
        }  
        catch (ArithmeticException e) {  
            System.out.println("Caught " + e);  
        }  
    }  
  
}  
  
class Son extends Father  
{
```

```

static void CheckSFage(int S_Age, int F_Age) throws ArithmeticException

{
try{
if(S_Age>=F_Age)
throw new ArithmeticException("Son's age should be smaller than father's age ,wrong age");
System.out.println("Son's age is"+S_Age+"Fathers age is "+F_Age);

}
catch (ArithmeticException e) {
System.out.println("FCaught " + e);
}

}
}

public class ExceptionHandling{
public static void main(String args[]) {

Father.acceptNameF(-10);
Son.CheckSFage(30,20);

}
}

```

```

C:\Users\asus\Downloads>javac ExceptionHandling.java
C:\Users\asus\Downloads>java ExceptionHandling
Caught java.lang.ArithmeticException: Wrong Age
FCaught java.lang.ArithmeticException: Son's age should be smaller than father's age ,wrong age
C:\Users\asus\Downloads>

```