

Week 10

1) class Gen<A,B> {

A A1;

B B1;

Gen(A A2, B B2) {

A1 = A2;

B1 = B2;

}

void Display() {

System.out.println(A1);

System.out.println(B1);

}

}

class Wk10prog1 {

public static void main(String args[]) {

Gen<String,Integer> obj1 = new Gen<String,Integer>("HELLO",22);

Gen<Character,Double> obj2 = new Gen<Character,Double>('A',1120.08);

obj1.Display();

obj2.Display();

}

}


```
2) import java.util.Scanner;
class WrongAge extends Exception {
    String p;
    WrongAge(String s) {
        p = s;
    }
    public String toString() {
        return p;
    }
}
```

```
class Father {
    int fatherAge, sonAge;
    Father(int fAge, int sAge) throws WrongAge {
        if ((fAge < 0) || (sAge < 0)) {
            throw new WrongAge("father's Age or son's age is less than 0.");
        } else {
            this.fatherAge = fAge;
            this.sonAge = sAge;
        }
    }
}
```

```
class Son extends Father {
    Son(int fAge, int sAge) throws WrongAge {
        super(fAge, sAge);
        if (fAge <= sAge) {
            throw new WrongAge("father's Age is equal or less than son's age");
        }
        this.fatherAge = fAge;
        this.sonAge = sAge;
    }
}
```



```
void print() {  
    System.out.println("Father's Age : " + fatherAge);  
    System.out.println("Son's Age : " + sonAge);  
}
```

```
class Wk10prog2 {  
    public static void main (String [] args) {  
        int fAge, sAge;  
        Scanner sc = new Scanner (System.in);  
        System.out.println("Enter father's age");  
        fAge = sc.nextInt();  
        System.out.println("Enter Son's age");  
        sAge = sc.nextInt();  
        try {  
            Son son = new Son(fAge, sAge);  
            son.print();  
        } catch (WrongAge ex) {  
            System.out.println("Exception : " + ex);  
        }  
    }  
}
```