Generics - Week 10

```
class Demo<T, V>
{
T obj1;
V obj2;
public Demo (T obj1, V obj2) {
 this.obj1 = obj1;
 this.obj2 = obj2;
}
void show-types ()
{
System.out.println("Type of T:" +obj1.getclass().getName());
System.out.println("Type of V:" +obj2.getclass().getName());
}
}
class Player
{
 string name;
 public Player (String name){
 this.name = name;
}
}
public class Gen-demo {
 public static void (String [] args) {
Demo<Integer, String> d1 = new Demo<Integer, String>
(21, "Faster");
d1.show-types();
System.out.println();

Demo<Double, Boolean> d2 = new Demo<Double, Boolean>
(23.45, true);
  d2.show-types();
 System.out.println();
    Player p = new Player("John");
```

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```
Demo <Player, Integer> d3 = new Demo <Player, Integer> (p, 45);
 d3.show_types();
}
}
```

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Week 10 - Lab Program 2

```
import java.util.Scanner;
class WrongAge extends Exception{
  int age;
WrongAge (int x) {
    age = x;
}
public String toString() {
  return "AGE OF SON =" + age + "IS ENTERED INCORRECTLY";
  }
}
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 compute() throws WrongAge.{
  if (age>=a) {
throw new WrongAge(age);
} else {
System.out.println("The AGES are entered CORECTLY");
System.out.println("FATHER'S AGE =" + a + "\t" +
"SON'S AGE =" + age);
}
}
}
```

Father - Son Exception

```
class ExceptionsMain{
public static void main(String args[]){
  Scanner S = new Scanner(System.in);
  System.out.println("ENTER FATHER'S AGE:");
  int f = S.nextInt();
  System.out.println("ENTER SON'S AGE:");
  int SO = S.next Int();
  son SS = new son(f, So);
  try {
  SS. compute();
} catch(wrongAge e) {
  System.out.println(e);
} }
}
```