Week-10

Lab Program-7

```
class myGen<a, b>
  a obj1;
  b obj2;

myGen(a obj1, b obj2) {
    this.obj1 = obj1;
    this.obj2 = obj2;
}
  void Display() {
    System.out.println(obj1);
    System.out.println(obj2);
    }
}

public class GenericsMain {
    public static void main(String args[]){
        myGen<String, Integer> myG1 = new myGen
            <String, Integer>("Mike", 56);
        myGen<Character, Double> myG2 = new myGen
            <Character, Double>('Q', 34.8489);
        myG1.Display();
        myG2.Display();
    }
}
```

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Lab Program – 8

```
import java.util.Scanner;
class WrongAge extends Exception {
    public WrongAge(String s) {
        super(s);
    }
}

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

```
void Display (){
    System.out.println("Father's age: " +
                        father Age);
    System.out.println("Son's Age: " + Son
                                    Age);
  }
}

public class exp {
    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.Display();
        } catch (WrongAge err) {
            System.out.println("Exception" + err);
        }
    }
}
```