LAB7 1BM19CS009 AJITH KUMAR.G

```
import java.util.Scanner;

class list<G><K>
{
    Private G ele1;
    Private K ele2;
    Scanner get = new Scanner(Systemin);
    list (G ele1 ,K ele2)
    {
        this.ele1 =ele1;
        this.ele2 =ele2;
    }
    void putData()
    {
        System.out.printf("\n The first Element is of %s
            type, And it is :\n",(ele1.getclass().getName()).substring"
            (10));
        system.out.Println(ele1);
        System.out.printf("\n The Second Element is of %s
            type. And it is : \n", (ele2.getclass().getName()).substr-
            ring(10));
        System.out.println(ele2);
    }
}
class listMain
{
    public static void main(String[] args)
    {
        list<Integer, Double> a1 = new list<Integer,Double>
            (10, 34.55);
        list< Double, String> a2 = new list<Double,String>
            (99.90,"Best of Luck");
        list<String,Integer> a3 = new list<String, Integer>
            ("Good luck",10);
system.out.println ("\n <----object 1 ----> ");
a1.putData();
 system.out.println ("\n  <---- Object 2 ----> ");
a2.putData();
  system.out.println ("\n <---- Object 3 ----> ");
 a3.putData();
 }
}
```

LAB 8 1BM19CS009 Agith Kumar G

```
import java.util.scanner;

class wrongAge extends Exception
{
    private int fAge, sAge;
    wrongAge(int f, int s)
    {
        fAge = f; sAge= s;
    }
    public String toString()
    {
        return "Wronge Age (father's age ("+fAge+") <= Son's Age ("+sAge+"
                        ): this can't be true! ";
    }
}
class negativeAge extends Exception
{
        private int fAge;
        negativeAge(int f)
        {
            fAge = f;
        }
        public String toString()
        {
            return "Negative Age : ~~fathers~~ Age (" + fAge ~~+"~~ +") can't
                        be ~~less than 0~~: check again!!!");
                           negative
        }
}

class father
{
    int fathersAge;
    string name;
    Scanner get = new Scanner(system.in);
    father() throws negativeAge
    {
        system.out.printf("\n <--- Enter Details --->");
        ~~system.out.printf("\n fathers~~
        system.out.printf("\n Name: "); name = get.next();
    system.out.printf (" Fatheris age: ");fathersAge=get.nextInt();
    if (fathersAge <=0)
        throw new negativeAge(fathersAge);
    }
}

class son extends father
{
    int classNo, sonsAge;
    son() throws wrongAge, negativeAge
    {
     super();
     System.out.printf ("Age :"); sonsAge=get.nextInt();
     if (fathersAge<sonsAge)
          throw new wrongAge (fathersAge, sonsAge);
     else
     if ( sonsAge<0)
          throw new negativeAge (sonsAge);
      System.out.printf(" class:");
      classNo.get.nextInt();
      System.out.print f ("\n The Son age is: %d , and
          fathers age is :%d ", sonsAge, fathersAge);
     }
    }

  class sonMain
  { public static void main (String[] args)
    {
       try
       { son s1 =new son();
       }
       catch (wrongAge w1)
       { System.out.println (" Caught an Exception: " +w1);
       }
    catch (negativeAge w2)
    {
        System.out.println(" caught an Exception:"+w2)
    }
  }
}
```