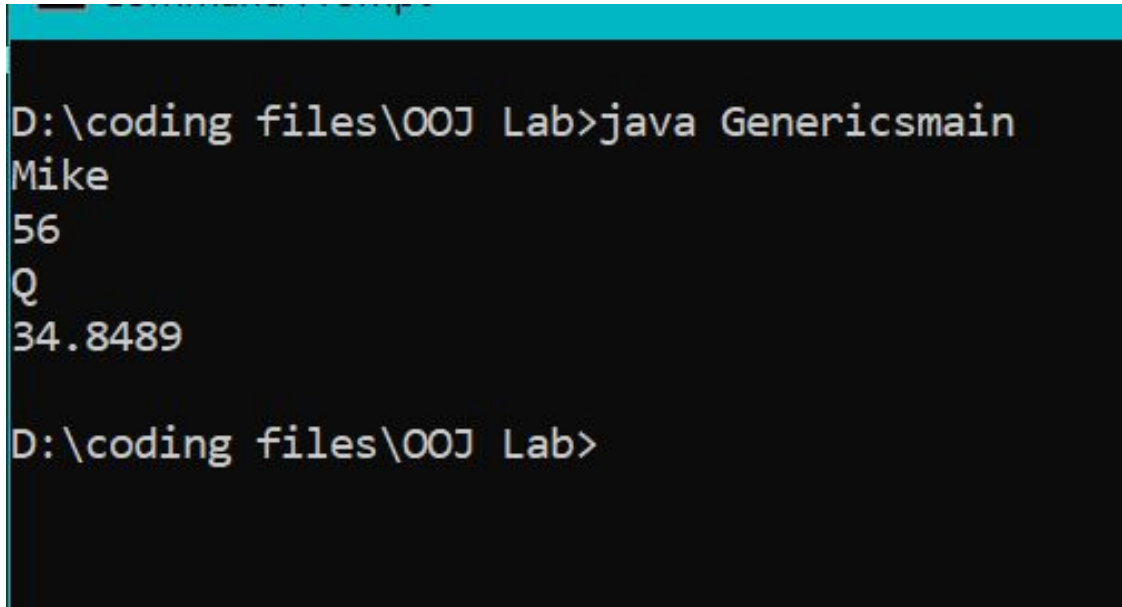


## LAB - 7 & 8

**/\*Write a program to demonstrate generics with multiple object parameters.\*/**

```
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);
    }
}
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();
    }
}
```



```
D:\coding files\00J Lab>java Genericsmain
Mike
56
Q
34.8489

D:\coding files\00J Lab>
```

**/\*Write a program that demonstrates handling of exceptions in inheritance tree. Create a base class called Father and derived class called Son which extends the base class. In Father class, implement a constructor which takes the age and throws the exception Wrong Age( ) when the input age<0. In Son class, implement a constructor that cases both father and son's age and throws an exception if Son's age is >= father's age\*/**

```
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 qual to or greater than father's age");
        }
    }
    void Display(){
        System.out.println("Father's age:"+fatherAge);
        System.out.println("Son's age:"+sonAge);
    }
}
```

```

class Wrongage_main{
    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);
        }
    }
}

```

```

D:\coding files\00J Lab>javac wrongage_exception.java

D:\coding files\00J Lab>java Wrongage_main
Enter Father's Age:
24
Enter Son's age:
3
Father's age:24
Son's age:3

D:\coding files\00J Lab>java Wrongage_main
Enter Father's Age:
13
Enter Son's age:
45
Exception WrongAge: Son's age is qual to or greater than father's age

D:\coding files\00J Lab>

```