Lab 7

Q)

```java
import java.util.Scanner;

class WrongAge extends Exception{
        public Wrong Age (String s) {
            Super(s);
        }
}

class Father {
    int fatherAge;
    Scanner s = new Scanner. (System.in)
    Father () {
        System.out.println ("Enter Father's age");
        fatherAge = s.nextInt();
    }
    void check1() throws WrongAge {
        if (fatherAge <0) {
            throw new WrongAge ("Age cannot be
            negative");
        }
        else{
            System.out.println ("Father's age "+fatherAge);
        }
    }
}
```

```java
class Son extends Father {
    int sonAge;
    Scanner s = new Scanner(System.in);
    Son() {
        Super();
        System.out.println("Enter son's age"),
        SonAge = s.nextInt();
    }
    void check2() throws WrongAge {
        if (sonAge >= fatherAge) {
            throw new WrongAge("Son's age cannot
            be greater than father's age");
        else if (sonAge < 0) {
            throw new WrongAge("age can't be
            negative");
        }
        else {
            System.out.println("Son's age: " + sonAge);
        }
    }
}
```

```
Class Main {
        public static void main (String args [ ]) {
            Son  s = new Son ( );
            try {
                 s. check 2 ( );
            }
            catch (wrong Age e) {
            System. out. println (e. getMessage ( ));
            }
        }
    }
```

<u>OUTPUT</u> :

1) Enter Father's age
   30
   Enter Son's age
   45
   Son's age cannot be greater than father's age

2) Enter Father's age
   45
   Enter Son's age :
   15
   Son's age ; 15