

## LAB8- FATHER SON

```
import java.util.*;

class WrongAge extends Exception
{
    private int a,b;

    WrongAge(int x,int y)
    {
        a=x;
        b=y;
    }

    public String toString()
    {
        if(a<0 || b<0)
            return " age cannot be less than 0";
        else if(a<=b)
            return "valid ages have not been entered";
        return "";
    }
}

class Father
{
    int fage,sage;

    Scanner sc=new Scanner(System.in);

    Father() throws WrongAge
```

```

{
    System.out.println("age of father");
    fage=sc.nextInt();
    System.out.println("age of son");
    sage=sc.nextInt();
    if(fage<0 || sage<0)
        throw new WrongAge(fage,sage);

}
}

class Son extends Father
{

    Son() throws WrongAge
    {

        if(sage>=fage)
            throw new WrongAge(fage,sage);
        else
            System.out.println("valid ages have been entered");
    }
}

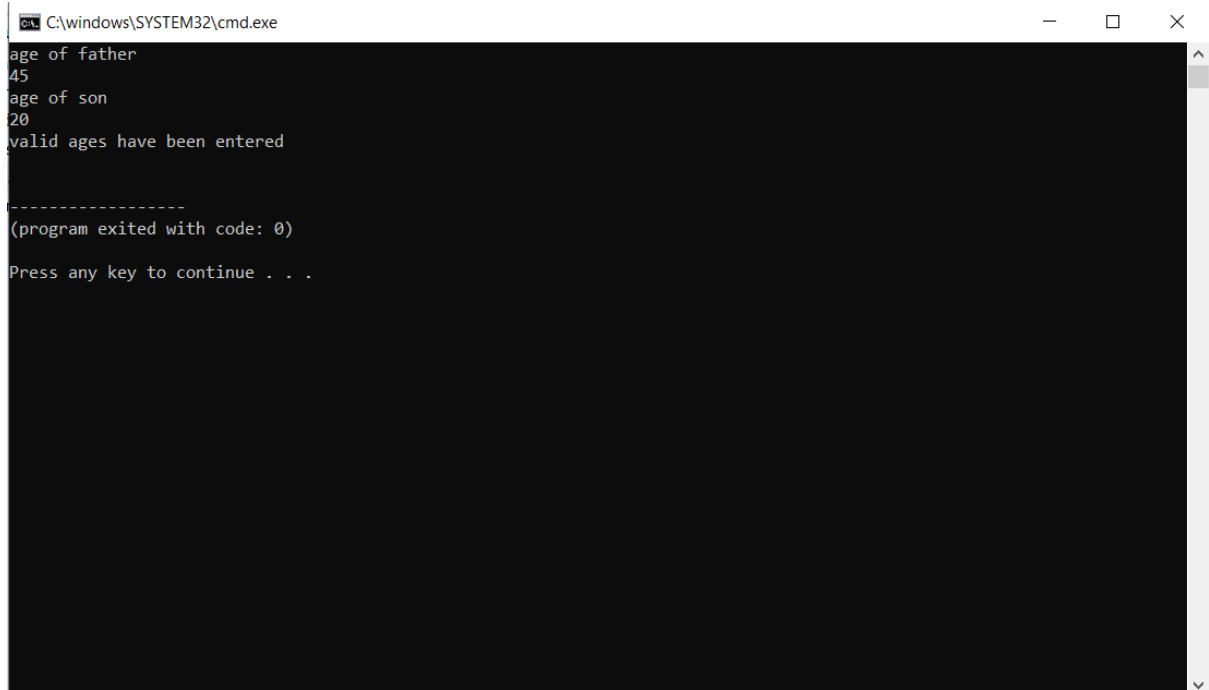
```

```
class FatherSon
{
    public static void main(String args[])
    {

        try
        {
            Son s=new Son();
            }catch(WrongAge e){
                System.out.println("error:"+e);

            }

        }
    }
}
```



```
C:\windows\SYSTEM32\cmd.exe
age of father
45
age of son
20
valid ages have been entered

-----
(program exited with code: 0)
Press any key to continue . . .
```