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papergrid

Date: / /

### Lab 7

WAP that demonstrates handling of exceptions in inheritance. Create a base class "Father" and a derived class "Son". In Father class, implement a constructor which takes the age and throws the exception wrongAge when the input age < 0. In Son class, implement constructor that calls both implement a constructor that calls both father and son's age.

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

```
class InputScanner  
{  
    Scanner is = new Scanner(System.in);  
}
```

```
class Father extends InputScanner  
{  
    int FatherAge;  
    Father () throws WrongAge  
    {  
        System.out.println("Enter age of  
        father");  
        FatherAge = is.nextInt();  
        if (FatherAge < 0)  
        {  
            throw new WrongAge("Age cannot  
            be negative");  
        }  
    }  
}
```

```
void displayFather()
{ S.O.P("FatherAge is: " + FatherAge);
}
```

class Son extends Father

```
{ int sonAge;
  son() throws wrongAge
  { super();
    S.O.P("Enter the age of son:");
    sonAge = u.nextInt();
    if (sonAge > FatherAge)
    { throw new wrongAge("son's age
      cannot be greater
      than father's
      age.");
    }
    else if (sonAge < 0)
    { throw new wrongAge("Age cannot be negative");
    }
  }
}
```

```
void displaySon()
{ S.O.P("son age is: " + sonAge);
}
```

class Excep

```
{ public static void main(String args[])
  { try
    { son son = new Son();
      son.displayFather();
      son.displaySon();
    } catch (wrongAge e)
    { System.out.println("Error! +
      e.getMessage());
    }
  }
}
```



Output:

Enter Father Age .

5

Enter son Age .

10

Error! Son's Age cannot be greater than father's age .

Enter Father Age .

-2

Error! Age cannot be negative .

Enter Father Age .

45

Enter son Age .

-2

Error! Age cannot be negative .

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Lab-8

Write a program which creates two threads →  
one thread displays "BMS College of Engineering"  
once every 10 seconds and another displays  
"CSE" once every two seconds.