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Week-8-Part2

Q3.

```
import java.util.Scanner;
```

```
class InvalidException extends Exception {  
    InvalidException(String s) {  
        super(s);  
    }  
}
```

```
public class employee {  
    String emp_code, emp_name, dob, doa;
```

```
    employee(String ec, String en, String db, String da) {  
        emp_code = ec;  
        emp_name = en;  
        dob = db;  
        doa = da;  
    }
```

```
    static void validate(String code) throws InvalidException{  
        String s1, s3, s4;  
        String s2;  
        s1 = code.substring(0, 2);  
        s2 = code.substring(3, 4);  
        s3 = code.substring(5);  
        if (s1.length() > 2 || s3.length() > 3 || (!s2.equals("M") && !s2.equals("H") && !s2.equals("A") && !  
            s2.equals("T") && !s2.equals("E"))) {  
            throw new InvalidException("Not Valid");  
        }  
        else{  
            return;  
        }  
    }
```

```
    static void validate(int a,int b) throws InvalidException{  
        if(b>a){  
            throw new InvalidException("Date of Birth error");  
        }  
        else{  
            return;  
        }  
    }
```

```
    void display(){  
        System.out.println("Employee name = "+emp_name);  
        System.out.println("Employee code = "+emp_code);  
    }
```

```
System.out.println("Employee date of birth = "+dob);
System.out.println("Employee date of appontment = "+doa);
}
```

```
public static void main(String[] args) {
Scanner in = new Scanner(System.in);
String emp_code, emp_name, dob, doa;
System.out.println("Enter employee name : ");
emp_name = in.next();
System.out.println("Enter employee code : ");
emp_code = in.next();
System.out.println("Enter employee date of birth : ");
dob = in.next();
System.out.println("Enter employee date of appointment : ");
doa = in.next();
try{
validate(emp_code);
int d1,d2;
d1 = Integer.parseInt(doa.substring(6,8));
d2 = Integer.parseInt(dob.substring(6,8));
try{
validate(d1, d2);
employee obj = new employee(emp_code,emp_name,dob,doa);
obj.display();
}
catch(Exception m){
System.out.println("Exception occurred "+m);
}
}
catch(Exception m){
System.out.println("Exception occurred "+m);
}
}
```

Output :

1. No exception

```
piratepanda@SastaPC:~/Documents/javablab/week8$ java employee
Enter employee name :
anupam
Enter employee code :
76-A-242
Enter employee date of birth :
20/09/02
Enter employee date of appointment :
20/09/20
Employee name = anupam
Employee code = 76-A-242
Employee date of birth = 20/09/02
Employee date of appontment = 20/09/20
piratepanda@SastaPC:~/Documents/javablab/week8$ java employee
```

.

2. Invalid Code Exception

```
piratepanda@SastaPC:~/Documents/javablab/week8$ java employee
Enter employee name :
anupam
Enter employee code :
76-x-242
Enter employee date of birth :
20/02/02
Enter employee date of appointment :
20/09/20
Exception ocurred InvalidException: Not Valid
piratepanda@SastaPC:~/Documents/javablab/week8$ █
```

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3. Date of birth error

```
piratepanda@SastaPC:~/Documents/javablab/week8$ java employee
Enter employee name :
anupam
Enter employee code :
76-A-242
Enter employee date of birth :
20/09/20
Enter employee date of appointment :
20/09/02
Exception occurred InvalidException: Date of Birth error
piratepanda@SastaPC:~/Documents/javablab/week8$ java employee
```