JAVA PROJECT

TITLE: GRADE MANAGEMENT SYSTEM

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JAVA CODE:

```
import java.util.*;
class InvalidNumber extends Exception
{
	InvalidNumber(String s)
	{
		super(s);
	}
}
class Grade
{
	int flag=0;
	void validate(int mark1,int mark2,int mark3,int mark4,int mark5)throws InvalidNumber
	{
		if(mark1<0)
		{
			throw new InvalidNumber("Marks should not be negative");
		}
		else if(mark1>100)
		{
			throw new InvalidNumber("Marks should not be greather then 100");
		}
```

```
else
{
        flag=flag+1;
}
if(mark2<0)
{
        throw new InvalidNumber("Marks should not be negative");
}
else if(mark2>100)
{
        throw new InvalidNumber("Marks should not be greather then 100");
}
else
{
        flag=flag+1;
}
if(mark3<0)
{
        throw new InvalidNumber("Marks should not be negative");
}
else if(mark3>100)
{
        throw new InvalidNumber("Marks should not be greather then 100");
}
else
```

```
{
        flag=flag+1;
}
if(mark4<0)
{
        throw new InvalidNumber("Marks should not be negative");
}
else if(mark4>100)
{
        throw new InvalidNumber("Marks should not be greather then 100");
}
else
{
        flag=flag+1;
}
if(mark5<0)
{
        throw new InvalidNumber("Marks should not be negative");
}
else if(mark5>100)
{
        throw new InvalidNumber("Marks should not be greather then 100");
}
else
{
```

```
            flag=flag+1;
}
if(flag==5)
{
            int total=(mark1+mark2+mark3+mark4+mark5)/5;
            if(total>=90 && total<=100)
            {
            System.out.println("Grade is A");
}
else if(total>=80 && total<90)
{
            System.out.println("Grade is B");
}
else if(total>=70 && total<80)
{
            System.out.println("Grade is C");
}
else if(total>=60 && total<70)
{
            System.out.println("Grade is D");
}
else if(total>=50 && total<60)
{
            System.out.println("Grade is E");
}
```

```
                else{
                System.out.println("Grade is F");
                System.out.println("Grade is F");
                }
                }
        }
        public static void main(String args[])
        {
                Grade g=new Grade();
                try
                {
                        g.validate(80,55,67,48,78);
                }
                catch(InvalidNumber i)
                {
                        System.out.println(i);
                }
        }
}
```