

NOVEMBER	M	T	W	T	F	S	S
	.	1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30

29-10-2011

OCTOBER

Q.49. Write a program to accept and compute the factorial of the number. The program should raise every possible exception that is if the user forgot to specify an argument or the argument is not in a number format. Trap the relevant exception and print the corresponding error message.

- Use
1. ArrayIndexOutOfBoundsException.
 2. NumberFormatException class.
 3. IllegalArgument Exception class.

```

class IllegalArgument Exception extends Exception
{
    IllegalArgument Exception ()
    {
        S.O.P. (" Given No. is Illegal = ");
    }
}

```

```

class factorial
{
    protected factorial ()
    {
    }
    public static void main (final String args)
    {
        int num, i, fac;
        try {
            num = Integer.parseInt (args[0]);
            if (num > 100)
                throw new IllegalArgument Exception ();
        }
    }
}

```

Appointments ~ Meetings

```

else if (num == 0)

```

```

    s.o.p.("factorial is: 1");

```

```

else

```

```

    fact = 1;

```

```

    for (i = 1; i <= num; i++)
        fact = fact * i;

```

```

s.o.p.("v.d", fact)

```

```

    s.o.p.("Factorial of Given No is: " + fact);

```

```

} catch (IllegalArgumentException ie)

```

```

    s.o.p.("Given No is invalid");

```

```

} catch (NumberFormatException ne)

```

```

    s.o.p.("Incorrect Data");

```

```

} catch (ArrayIndexOutOfBoundsException ae)

```

```

    s.o.p.("Incomplete data");

```

DECEMBER	M	T	W	T	F	S	S
	.	.	.	1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	.

01-11-2011

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```
> java factorial.java ↵
> java factorial ↵
```

Incomplete data

```
> java factorial s ↵
```

Incorrect data

```
> java factorial 105 ↵
```

Given No is invalid

```
> java factorial 5 ↵
```

Factorial of Given No is : 120

==