LAB 1: INPUT THROUGH SCANNER CLASS AND COMMAND LINE ARGUMENT

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Q1 Write a program to check whether the number taken from user is Armstrong or not.

a)With CLA

CODE:

```
C:\Users\user\Desktop\SHREYAS\Java Programs>java ArmstronguCmd.java
C:\Users\user\Desktop\SHREYAS\Java Programs>java ArmstronguCmd 153
153 is Armstrong
C:\Users\user\Desktop\SHREYAS\Java Programs>java ArmstronguCmd 1634
1634 is Armstrong
C:\Users\user\User\Desktop\SHREYAS\Java Programs>java ArmstronguCmd 1634
1631 is Armstrong
C:\Users\user\Desktop\SHREYAS\Java Programs>java ArmstronguCmd 181
181 is Not Armstrong
C:\Users\user\Desktop\SHREYAS\Java Programs>java ArmstronguCmd 181
C:\Users\user\Desktop\SHREYAS\Java Programs>
```

CODE:

```
C:\Users\user\Desktop\SHREYAS\Java Programs>javac ArmstronguScan.java

C:\Users\user\Desktop\SHREYAS\Java Programs>javac ArmstronguScan
Enter a number to check armstrong or not

372

Armstrong

C:\Users\user\Desktop\SHREYAS\Java Programs>java ArmstronguScan
Enter a number to check armstrong or not

874

Armstrong

C:\Users\user\Desktop\SHREYAS\Java Programs>java ArmstronguScan
Enter a number to check armstrong or not

874

Armstrong

C:\Users\user\Desktop\SHREYAS\Java Programs>java ArmstronguScan
Enter a number to check armstrong or not

231

Not Armstrong

C:\Users\user\Desktop\SHREYAS\Java Programs>java ArmstronguScan
Enter a number to check armstrong or not

848

Mot Armstrong

C:\Users\user\Desktop\SHREYAS\Java Programs>

C:\Users\user\Desktop\SHREYAS\Java Programs>

C:\Users\user\Desktop\SHREYAS\Java Programs>
```

Q.2 Write a program to print factorial of number given by user.

a)With CLA

CODE:

```
C:\Users\user\Desktop\SHREYAS\Java Programs>javac Factorial#CMd.java
C:\Users\user\Desktop\SHREYAS\Java Programs>javac Factorial#CMd.java
C:\Users\user\Desktop\SHREYAS\Java Programs>java Factorial#CMd 5
factorial of 6 is 738
C:\Users\user\Desktop\SHREYAS\Java Programs>java Factorial#CMd 15
factorial of 75 is 138976/1368000
C:\Users\user\Desktop\SHREYAS\Java Programs>java Factorial#CMd 9
factorial of 9 is 362880
C:\Users\user\Desktop\SHREYAS\Java Programs>java Factorial#CMd 4
factorial of 4 is 24
C:\Users\user\Desktop\SHREYAS\Java Programs>
C:\Users\user\Desktop\SHREYAS\Java Programs>
ACTUSErs\user\Desktop\SHREYAS\Java Programs>
```

CODE:

```
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Import java.util.*;

public class FactorialwScan

{ public static void main(String args[])

{ System.out.println("NEnter number to find factorial");

    Scanner s-new Scanner(System.in);
    int as-s.nextInt();
    long k=fact(a);
    System.out.println("Factorial of "+a+" is "+k);
    }

static long fact(int f)

{ if(fc1)
    return 1;
    else
        return f*fact(--f);
    }
}
```

```
C:\Users\user\Desktop\SHREYAS\Java Programs>java FactorialuScan.java
C:\Users\user\Desktop\SHREYAS\Java Programs>java FactorialuScan
Enter number to find factorial
Factorial of 15 is 130767436800
C:\Users\user\Desktop\SHREYAS\Java Programs>java FactorialuScan
Enter number to find factorial
20
Factorial of 20 is 2432002008176640000
C:\Users\user\Desktop\SHREYAS\Java Programs>java FactorialuScan
Enter number to find factorial
20
Factorial of 20 is 2432002008176640000
C:\Users\user\Desktop\SHREYAS\Java Programs>java FactorialuScan
Enter number to find factorial
9
Factorial of 8 is 40320
C:\Users\user\Desktop\SHREYAS\Java Programs>____
```

Q.3 Write a program to print fibonacci series upto n terms, n taken from user.

a)With CLA

CODE:

```
C:\Users\user\Desktop\SREYAS\Java Programs>javac FibonacciscMd.java

C:\Users\user\Desktop\SREYAS\Java Programs>javac FibonacciscMd.java

C:\Users\user\Desktop\SREYAS\Java Programs>java FibonacciscMd 9

Fibonacci series till 9 terms is: 1 1 2 3 5 8 13 21 34

C:\Users\user\Desktop\SREYAS\Java Programs>java FibonacciscMd 15

Fibonacci series till 15 terms is: 1 1 2 3 5 8 13 21 34 55 89 144 233 377 510

C:\Users\user\Desktop\SREYAS\Java Programs>java FibonacciscMd 0

Fibonacci series till 0 terms is: 0

C:\Users\user\Desktop\SREYAS\Java Programs>java FibonacciscMd 30

Fibonacci series till 30 terms is: 1 1 2 3 5 8 13 21 34 55 89 144 233 377 510 987 1597 2584 4181 6765 10946 17711 28657 46368 75925 121393 196418 317811 514229 832040

C:\Users\user\Desktop\SREYAS\Java Programs>

C:\Users\user\Desktop\SREYAS\Java Programs>
```

CODE:

```
}
```

Q.4 Write a program to enter number of participants from user take the names from user and print them.

a) With CLA

CODE:

```
C:\Users\user\Desktop\SHREYAS\Java Programs>java NameswCmd.java
C:\Users\user\Desktop\SHREYAS\Java Programs>java NameswCmd.dava
C:\Users\user\Desktop\SHREYAS\Java Programs>java NameswCmd 4 Lopez Taro Inzo Jotano
The names are:
Lopez
Lopez
Lopez
C:\Users\user\Desktop\SHREYAS\Java Programs>java NameswCmd 3 Logan Bolasa Gio Kio
The names are:
Lopes
Lopes
C:\Users\user\Desktop\SHREYAS\Java Programs>java NameswCmd 3 Logan Bolasa Gio Kio
The names are:
Lopes
Lopes
Lopes
C:\Users\user\Desktop\SHREYAS\Java Programs>
C:\Users\user\Desktop\SHREYAS\Java Programs>
```

CODE:

Q.5 Write a program to reverse the number entered by user.

a) With CLA

CODE:

```
| Section | State | St
```

```
C:\Users\user\Desktop\SHREYAS\Java Programs\javac RevNumcmd.java
C:\Users\user\Desktop\SHREYAS\Java Programs\java RevNumcmd.java
C:\Users\user\Desktop\SHREYAS\Java Programs\java RevNumcmd 5324
4235
C:\Users\user\Desktop\SHREYAS\Java Programs\java RevNumcmd 89654551
15545698
C:\Users\user\Desktop\SHREYAS\Java Programs\java RevNumcmd 485
584
C:\Users\user\Desktop\SHREYAS\Java Programs\_

C:\Users\user\Desktop\SHREYAS\Java Programs\_

Desktop\SHREYAS\Java Progr
```

b) Scanner Class

CODE: