

## 23BAI1035-BCSE103E-Java

Date:29-07-2024

GitHub Link: <https://github.com/Nity05/Java-Sub.git>

### 1)To check Armstrong Number

#### Code:

```
import java.util.Scanner;

public class Arm{

    public static void main(String args[]){

        Scanner s=new Scanner(System.in);

        System.out.print("Enter the upper limit: ");

        int x=s.nextInt();

        System.out.print("Enter the lower limit: ");

        int y=s.nextInt();

        for(int i=x;i<=y;i++){

            int m=i;

            int p=i;

            int c=0;

            while(m!=0){

                m/=10;

                c++;

            }

            int b;
```

```

int sum=0;
while(p!=0){
    b=p%10;
    sum+=Math.pow(b,c);
    p/=10;
}
if(sum==i){
    System.out.println("The "+i+" is a armstrong number");
}
}
}
}

```

### Output

```

PS C:\Nithish\College\coding\java\Java
-Sub\Day6> javac Arm.java
PS C:\Nithish\College\coding\java\Java
-Sub\Day6> java Arm
Enter the upper limit: 150
Enter the lower limit: 410
The 153 is a armstrong number
The 370 is a armstrong number
The 371 is a armstrong number
The 407 is a armstrong number

```

### 2)To Print a Square Star Pattern

#### Code:

```
import java.util.*;
```

```

public class pat{
    public static void main(String args[]){
        Scanner s=new Scanner(System.in);
        System.out.print("Enter the length of side of square: ");
        int n=s.nextInt();
        for(int i=0;i<n;i++){
            System.out.print("*");
        }
        System.out.println();
        for(int i=0;i<n-2;i++){
            System.out.print("*");
            for(int j=0;j<n-2;j++){
                System.out.print(" ");}
            System.out.println("*");
        }
        for(int i=0;i<n;i++){
            System.out.print("*");
        }
    }
}

```

**Output**

```
PS C:\Nithish\College\coding\java\Java
-Sub\Day6> javac pat.java
PS C:\Nithish\College\coding\java\Java
-Sub\Day6> java pat
Enter the length of side of square: 5
*****
*      *
*      *
*      *
*****
```

### 3)To find LCM of two numbers

#### Code

```
import java.util.Scanner;

public class Lcm{

    public static void main(String args[]){

        Scanner s=new Scanner(System.in);

        System.out.print("Enter the first number: ");

        int n1=s.nextInt();

        System.out.print("Enter the second number: ");

        int n2=s.nextInt();

        int r=0;

        r+=Math.max(n1,n2);

        while (true) {

            if((r%n1==0)&&(r%n2==0)){

                break;}

            r++;

        }

    }

}
```

```
        System.out.println("The LCM of the numbers "+n1+" and "+n2+"  
is: "+r);  
    }  
}
```

### Output

```
PS C:\Nithish\College\coding\java\Java-Sub\Day  
6> javac Lcm.java  
PS C:\Nithish\College\coding\java\Java-Sub\Day  
6> java Lcm  
Enter the first number: 81  
Enter the second number: 72  
The LCM of the numbers 81 and 72 is: 648  
PS C:\Nithish\College\coding\java\Java-Sub\Day  
6> █
```

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