

1.Armstrong Number

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

```
class HelloWorld {  
    public static int digit(int n){  
        int c=0;  
        while (n>0){  
            c+=1;  
            n=n/10;  
        }  
        return c;  
    }  
    public static void main(String[] args) {  
        Scanner sc=new Scanner(System.in);  
        System.out.printf("Enter a number:");  
        int a=sc.nextInt();  
        int res=digit(a);  
        int temp=a;  
        int rem;  
        int sum=0;  
        while (temp>0){  
            rem=temp%10;  
            sum+=Math.pow(rem,res);  
            temp=Math.floorDiv(temp,10);  
        }  
        if(sum==a){  
            System.out.println("Given number is a armstrong");  
        }else{  
            System.out.println("Given number is not a armstrong");  
        }  
    }  
}
```

```
}
```

```
C:\Users\nivit\Desktop>javac HelloWorld.java

C:\Users\nivit\Desktop>java HelloWorld
Enter a number:1441
Given number is not a armstrong

C:\Users\nivit\Desktop>javac HelloWorld.java

C:\Users\nivit\Desktop>java HelloWorld
Enter a number:153
Given number is a armstrong
```

2. Generating a pattern

```
import java.util.Scanner;

class Pattern {

    public static void main(String[] args) {

        Scanner test=new Scanner(System.in);

        int N=test.nextInt();

        for(int i=0;i<N;i++){

            for(int j=0;j<N;j++){

                if((i==0 || i==N-1) || (j==0 || j==N-1)){

                    System.out.printf("* ");

                }

                else{

                    System.out.printf(" ");

                }

            }

            System.out.printf("\n");

        }

    }

}
```

```

PS C:\Users\nivit> cd downloads
PS C:\Users\nivit\downloads> javac Pattern.java
PS C:\Users\nivit\downloads> java Pattern
5
* * * * *
*       *
*       *
*       *
*       *
* * * * *

```

3.Finding LCM

```

import java.util.Scanner;

class Pattern {

    public static void main(String[] args) {

        Scanner sc=new Scanner(System.in);

        System.out.printf("Enter a number:");

        int a =sc.nextInt();

        System.out.printf("Enter a number:");

        int b =sc.nextInt();

        int hcf=1;

        if(a>b){

            for(int i=1;i<=b;i++){

                if((a%i==0) &&(b%i==0)){

                    hcf=i;

                }

            }

        }else{

            for(int i=1;i<=a;i++){

                if((a%i==0) &&(b%i==0)){

                    hcf=i;

                }

            }

        }

    }

}

```

```
int lcm=(a*b)/hcf;  
System.out.println("The Lcm of two is "+lcm);  
}  
}
```

```
PS C:\Users\nivit\downloads> javac Pattern.java  
PS C:\Users\nivit\downloads> java Pattern  
Enter a number:18  
Enter a number:27  
The Lcm of two is 54
```