

CSA0992 - Programming in Java

Assignment - 3

- 1) Write a java program to get input for multiplying two Matrices and display the Result:-

```
import java.util.Scanner;

public static void main (String[] args) {
    int n;
    Scanner input = new Scanner (System.in);
    System.out.println ("Enter the base of squared
                        matrices)

    n = input.nextInt ();
    int[][] a = new int [n][n];
    int[][] b = new int [n][n];
    int[][] c = new int [n][n];

    System.out.println ("Enter the element of 1st matrix x
                        row wise");
    for (int i=0; i<n; i++)
    {
        for (int j=0; j<n; j++)
        {
            a[i][j] = input.nextInt ();
        }
    }

    System.out.println ("Enter the element of 2nd matrix row
                        wise");
    for (int i=0; i<n; i++)
    {
        for (int j=0; j<n; j++)
        {
            b[i][j] = input.nextInt ();
        }
    }
}
```



```

for (int i=0; i<n; i++)
{
    for (int j=0; j<n; j++)
    {
        b[i][j] = input.nextInt();
    }
}

```

```

System.out.println("multiply the matrix");

```

```

for (int i=0; i<n; i++)
{
    for (int j=0; j<n; j++)
    {
        for (k=0; k<n; k++)
        {
            // 
        }
    }
}

```

```

System.out.println("The product is:");

```

```

for (int i=0; i<n; i++)
{
    for (int j=0; j<n; j++)
    {
        input.close();
    }
}

```


2) Find Factorial of numbers with integers sq or root from 1 to 356

```
import java.math.BigInteger;
public class FactorialWith Square Root {
    public static void main (String[] args) {
        1
        int n=356;
        BigInteger factorial = BigInteger.ONE;
        for (int i=1; i<=n; i++) {
            BigInteger Square Root = BigInteger.valueOf(
                Math.sqrt(i));
            factorial = factorial.multiply(Square Root);
        }
        2
        System.out.println("Factorial with Square Root of
            integers from 1 to "+n+" is:");
        3
    }
}
```

Reverse a string and find it is a palindrome?

```
public class String Palindrome {
    public static void main (String[] args) {
        String myString = "anna";
        String Buffer = new StringBuffer(myString);
```



```
buffer.reverse();  
String data = buffer.toString();  
if (mystring.equals(data)) {  
    System.out.println("Given string is Palindrome");  
} else {  
    System.out.println("Given string is not  
    Palindrome");  
}  
}
```