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Assignment - 3 JAVA

1) Multiply Matrices :-

```
class Matrix {
    Public static void main (String[] args) {
        Scanner Scanner = new Scanner (System.in);
        System. out. Println ("Enter the numbr of row & Colas");
        int rowA = Scanner. nextInt ();
        int colA = Scanner. nextInt ();
    System. out. Println ("Enter the numbrer of row & column for second");
        int rowB = Scanner. nextInt ();
        int colB = Scanner. nextInt ();
    If (colA != rowB) {
        system. out. Println ("Matrix Multiplication not Possible");
        Scanner. close ();
        return;
    }
int[][] matA = new int [rowA] [colA]
int[][] matB = new int [rowB] [colB];
    system. out. Println. ("Enter the elements fo first matrix");
        For (int i=0; i< rowA; i++)
            for (int j=0; j < colA; j++)
```

```
Public static void main (String args[])
{
    System.out.println ("TV method is called");
    System.out.println (tv());
    System.out.println ("Radio method is called");
    system.out.print (radio(4,"Album"));
    System.out.print ("Phone method is called");
    System.out.print (Phone(4,20,3,"Album"));
}
}
```

2A) Factorial of numbers:-

```
Import java.math.BigInteger;
Public class factorial{
Public static void main (String[] args) {
    ~~int sqrt~~ for (int i=1; i<=356; i++){
    int sqrt = (int) Math.sqrt (i);
        if (sqrt * sqrt == i) {
        Big integer factorial = find factorial (i);
        System.out.println ("Factorial of "+ i + " is "+ fact)
```

```
    }
}
Public static BigInteger findfactorial (int n) {
    Big integer factorial = Big integer.one;
    for (int i = 1; i <= n; i++) {
    factorial = factorial.multiply (Biginteger.valueOf(i));
    }
    return factorial;
}
}
```

3) Reverse string:-

```
import java.util.Scanner;
    Public class reverse {
        Public static void main (String[] args) {
            Scanner scanner = new Scanner (System.in);
        System.out.Print ("Enter the String:");
            String input = scanner.nextline();
            if (isreverse (input)) {
                System.out.Print("The Entered String is Palindrome");
            }
            else
```

```
        System.out.println("The entered String is not Palindrome: ");
    }
    scanner.close();
}
```