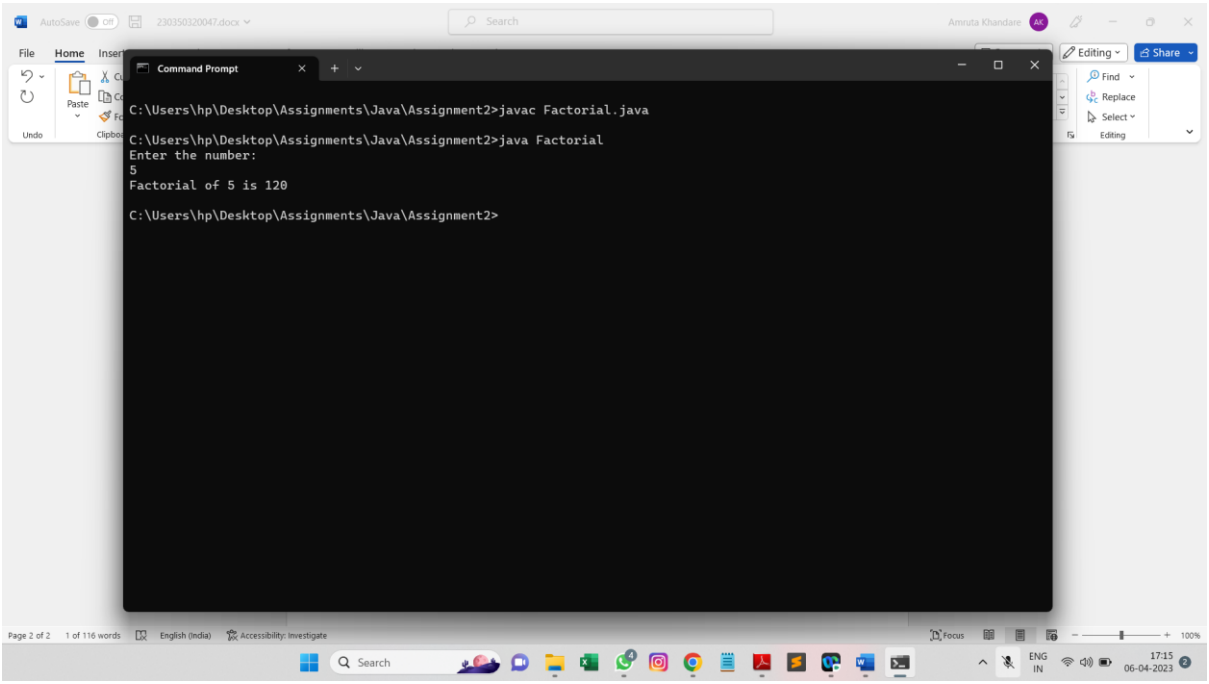
230350320047_Amruta Khandare_OOPS2

Q1:

```
import java.util.Scanner;
public class Prime
{
        public static void main(String[] args) {
           Scanner sc = new Scanner(System.in);
           int n = sc.nextInt();
System.out.println("Prime numbers between 1 and "+ n + " are :");
           int i, j, count;
           for(i = 2;i<=n;i++){
              count = 0;
           for(j = 1;j<=i;j++){
           if(i % j == 0){
              count++;
           }}
           if(count == 2)
           System.out.println(i + " ");
}
}
}
```

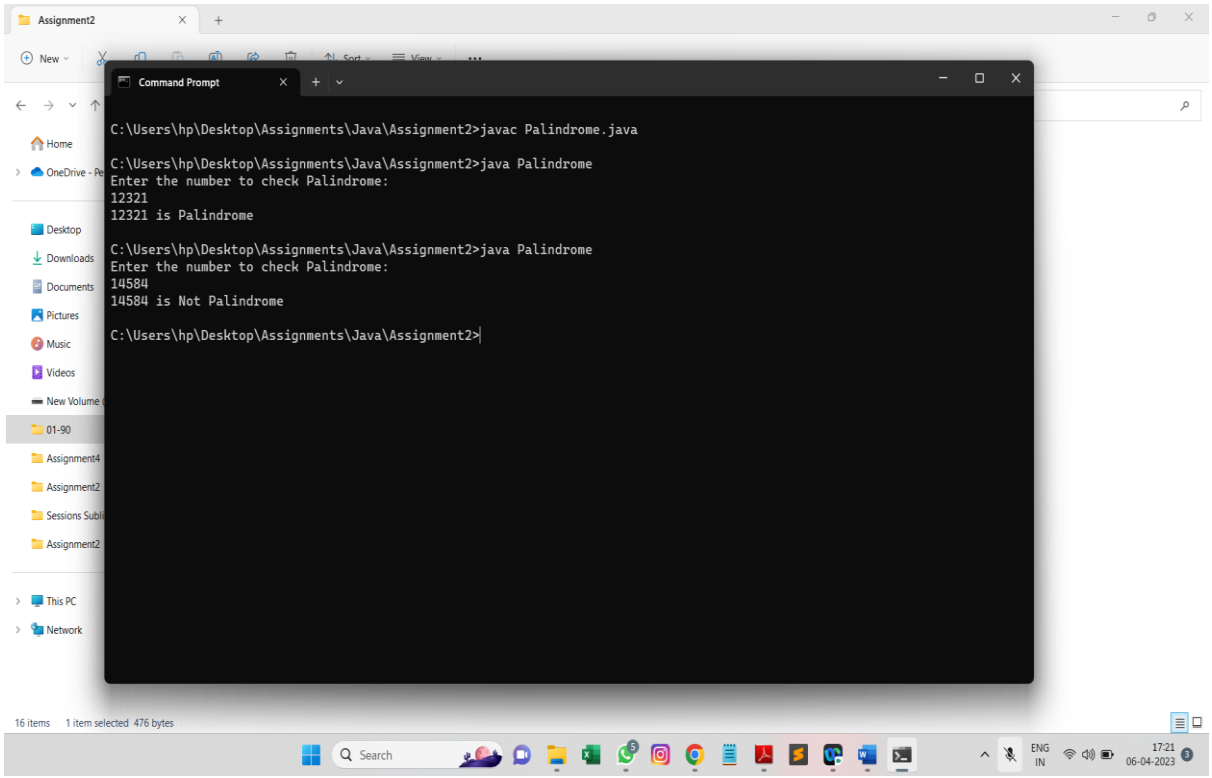
Q2:

```
import java.util.Scanner;
public class Factorial
{
        public static void main(String[] args) {
           Scanner sc = new Scanner(System.in);
           int n = sc.nextInt();
           int i, fact = 1;
           for(i = 1;i <= n;i++){
           fact = fact * i;
           }
           System.out.println("Factorial of " + n + " is " + fact);
}
}
```



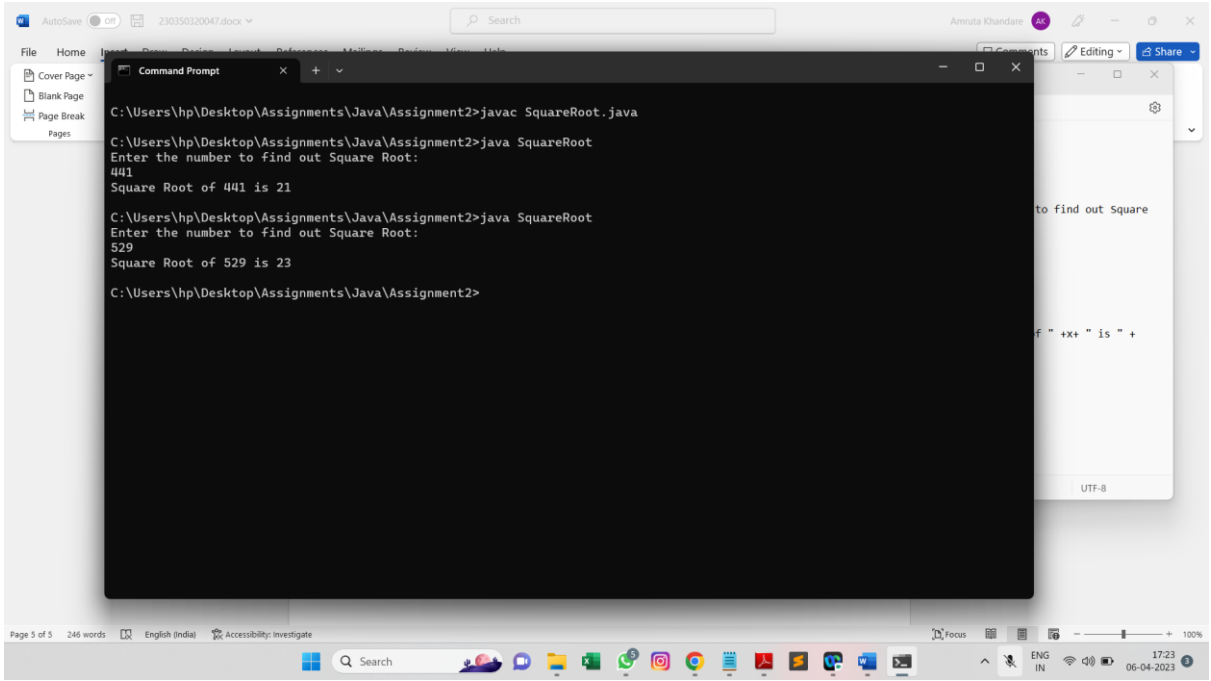
Q3:

```
import java.util.Scanner;
public class Palindrome
{
        public static void main(String[] args) {
           Scanner sc = new Scanner(System.in);
           int x  = sc.nextInt();
                int n = x;
                int rev = 0;
                while(n>0){
        int d = n % 10;
        rev = rev * 10 + d;
        n = n/10;
        }
           if(x == rev)
           System.out.println(x + " is Palindrome");
           else
           System.out.println(x + " is Not Palindrome");
}
}
```


Assignment2
Command Prompt
C:\Users\hp\Desktop\Assignments\Java\Assignment2>javac Palindrome.java
C:\Users\hp\Desktop\Assignments\Java\Assignment2>java Palindrome
Enter the number to check Palindrome:
12321
12321 is Palindrome
C:\Users\hp\Desktop\Assignments\Java\Assignment2>java Palindrome
Enter the number to check Palindrome:
14584
14584 is Not Palindrome
C:\Users\hp\Desktop\Assignments\Java\Assignment2>
16 items
1 item selected 476 bytes
Search
ENG
IN
17:21
06-04-2023

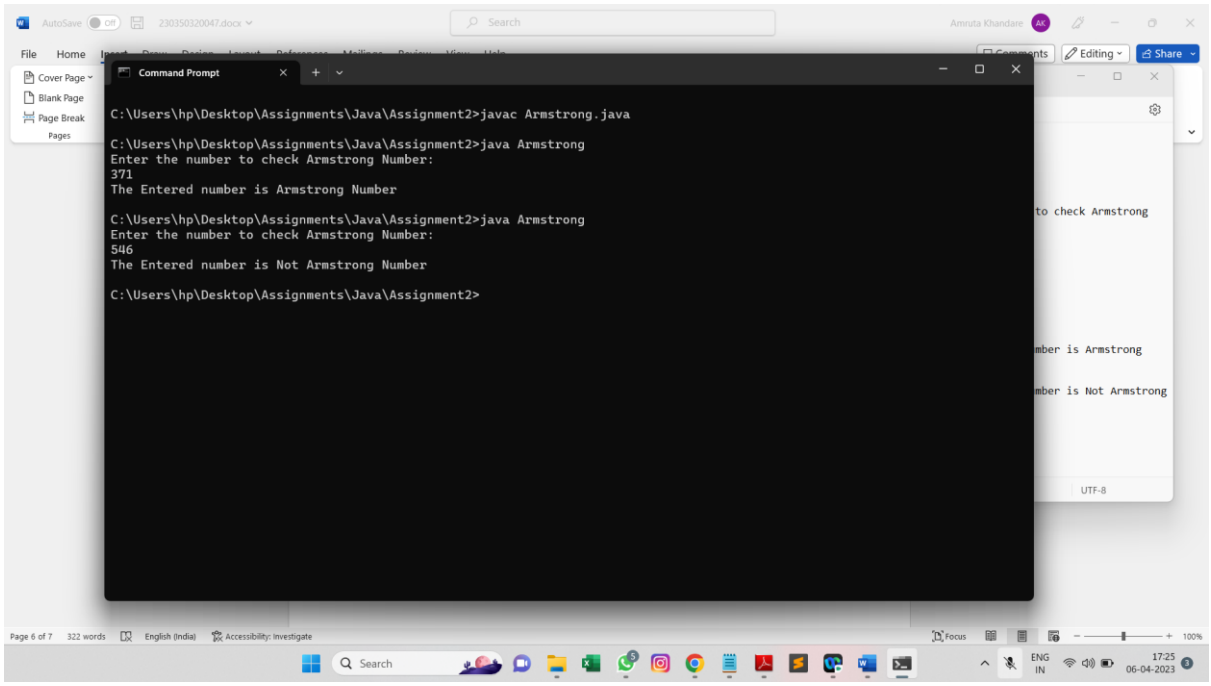
Q4:

```
import java.util.Scanner;
public class SquareRoot
{
        public static void main(String[] args) {
           Scanner sc = new Scanner(System.in);
           System.out.println("Enter the number to find out Square Root: ");
           int n = sc.nextInt();
           int x = n;
           int i = 1, count = 0;
              for(i = 1;i<=(n/2);i+=2){
              n = n - i;
              count++;
           }
              System.out.println("Square Root of " +x+ " is " + (count + 1));
}}
```



Q5:

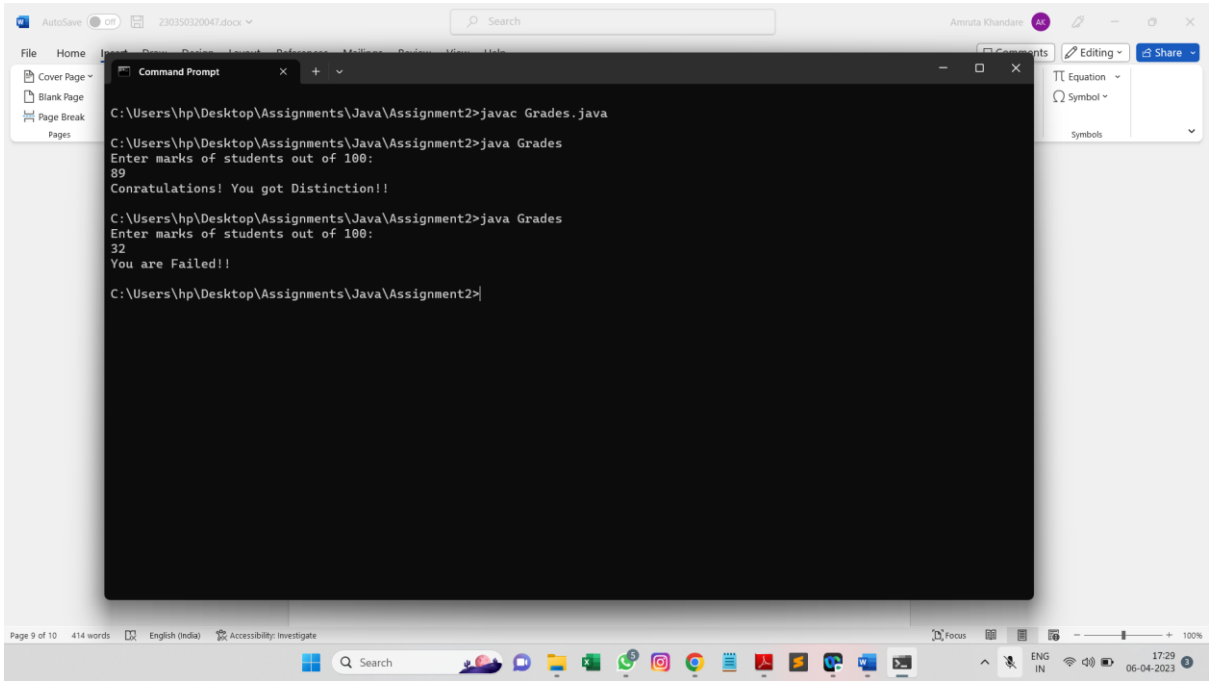
```
import java.util.Scanner;
public class Armstrong
{
        public static void main(String[] args) {
           Scanner sc = new Scanner(System.in);
           System.out.println("Enter the number to check Armstrong Number: ");
           int n = sc.nextInt();
           int x = n, d, armstrong = 0;
           while(n > 0){
              d = n % 10;
              armstrong = armstrong + d*d*d;
              n = n / 10;
           }
           if(x == armstrong)
             System.out.println("The Entered number is Armstrong Number");
             else
             System.out.println("The Entered number is Not Armstrong
Number");
        }
}
```


Command Prompt
C:\Users\hp\Desktop\Assignments\Java\Assignment2>javac Armstrong.java
C:\Users\hp\Desktop\Assignments\Java\Assignment2>java Armstrong
Enter the number to check Armstrong Number:
371
The Entered number is Armstrong Number
C:\Users\hp\Desktop\Assignments\Java\Assignment2>java Armstrong
Enter the number to check Armstrong Number:
546
The Entered number is Not Armstrong Number
C:\Users\hp\Desktop\Assignments\Java\Assignment2>
to check Armstrong
mber is Armstrong
mber is Not Armstrong
UTF-8

Q6:

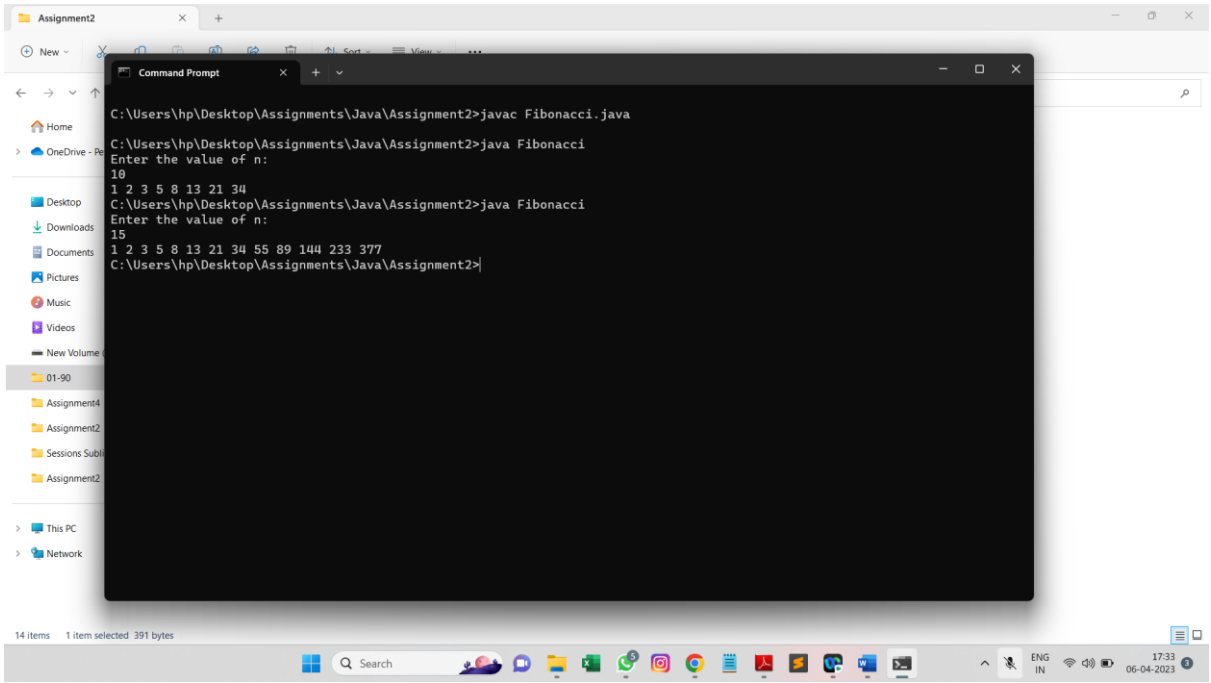
```
import java.util.Scanner;
public class Grades
{
	public static void main(String[] args) {
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter marks of students out of 100: ");
		int marks = sc.nextInt();
		 marks /= marks;
		switch(marks){
		   case 10:
		   case 9:
		   case 8:
		   case 7: System.out.println("Conratulations! You got
Distinction!!");
			break;
		   case 6: System.out.println("You got First Class!!");
			break;
		   case 5: System.out.println("You got Second Class!!");
			break;
		   case 4: System.out.println("You are Passed!!");
			break;
		   case 3: System.out.println("You are Failed!!");
			break;
		   case 2: System.out.println("You are Failed!!");
			break;
		   case 1: System.out.println("You are Failed!!");
```

```
                    break;
                default: System.out.println("Enter valid marks");
            }
        }
}
```



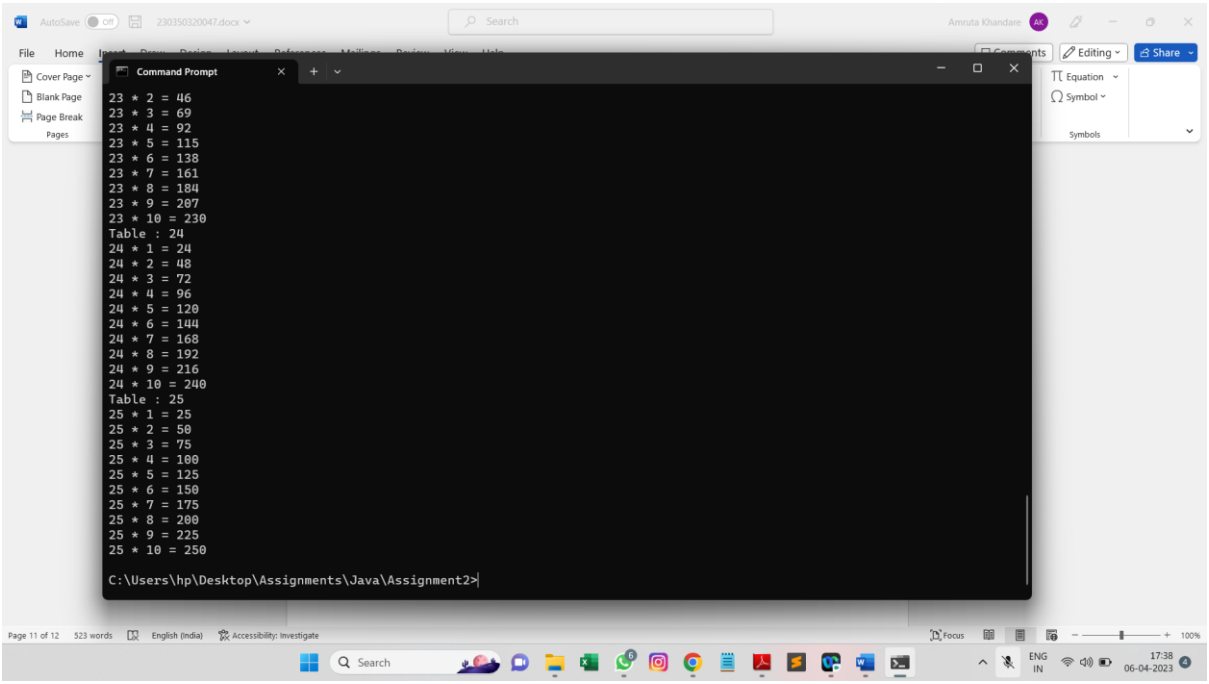
Q8:

```
 import java.util.Scanner;
public class Fibonacci
{
        public static void main(String[] args) {
                Scanner sc = new Scanner(System.in);
                int count = sc.nextInt();
                int i, n1 = 0, n2 = 1, fibonacci = 0;
                for(i = 2;i< count;i++){
                fibonacci =  n1 + n2;
                System.out.println(fibonacci);
                n1 = n2;
                n2 = fibonacci;
        }
    }
}
```



Q9:

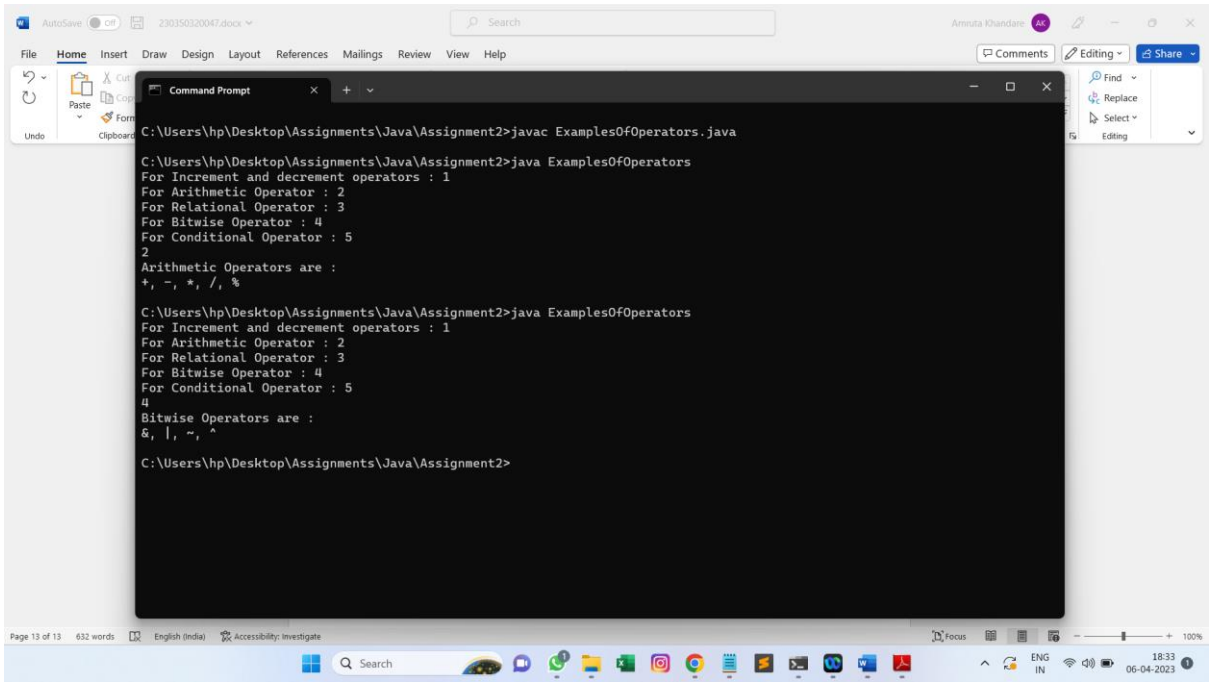
```
public class Table
{
	public static void main(String[] args) {
		int i, n, table = 1;
		for(n = 11;n <= 25;n++){
		   System.out.println("Table : " + n);
		for(i = 1;i <= 10;i++){
		   table = n * i;
		   System.out.println(n + " * " + i + " = " + table + " ");
		}
	}
	}
}
```



Q10:

```
import java.util.Scanner;
public class ExamplesOfOperators
{
	public static void main(String[] args) {
		System.out.println("For Increment and decrement operators : 1");
		System.out.println("For Arithmetic Operator : 2");
		System.out.println("For Relational Operator : 3");
		System.out.println("For Bitwise Operator : 4");
		System.out.println("For Conditional Operator : 5");
		Scanner sc = new Scanner(System.in);
		int choice = sc.nextInt();
		switch(choice){
		   case 1: System.out.println("Increment and decrement operators are:\n++ and --");
			   break;
		   case 2: System.out.println("Arithmetic Operators are :\n+, -, *, /, %");
			   break;
		   case 3: System.out.println("Relational Operators are :\n<, >, <=, >==, <<, >>, >>>");
			   break;
		   case 4: System.out.println("Bitwise Operators are :\n&, |, ~, ^");
			   break;
		   case 5: System.out.println("Conditional Operators are :\n?:");
			   break;
		  default: System.out.println("Enter Valid Choice");
```

```
        }
    }
}
```


Command Prompt
C:\Users\hp\Desktop\Assignments\Java\Assignment2>javac ExamplesOfOperators.java
C:\Users\hp\Desktop\Assignments\Java\Assignment2>java ExamplesOfOperators
For Increment and decrement operators : 1
For Arithmetic Operator : 2
For Relational Operator : 3
For Bitwise Operator : 4
For Conditional Operator : 5
2
Arithmetic Operators are :
+, -, *, /, %
C:\Users\hp\Desktop\Assignments\Java\Assignment2>java ExamplesOfOperators
For Increment and decrement operators : 1
For Arithmetic Operator : 2
For Relational Operator : 3
For Bitwise Operator : 4
For Conditional Operator : 5
4
Bitwise Operators are :
&, |, ~, ^
C:\Users\hp\Desktop\Assignments\Java\Assignment2>