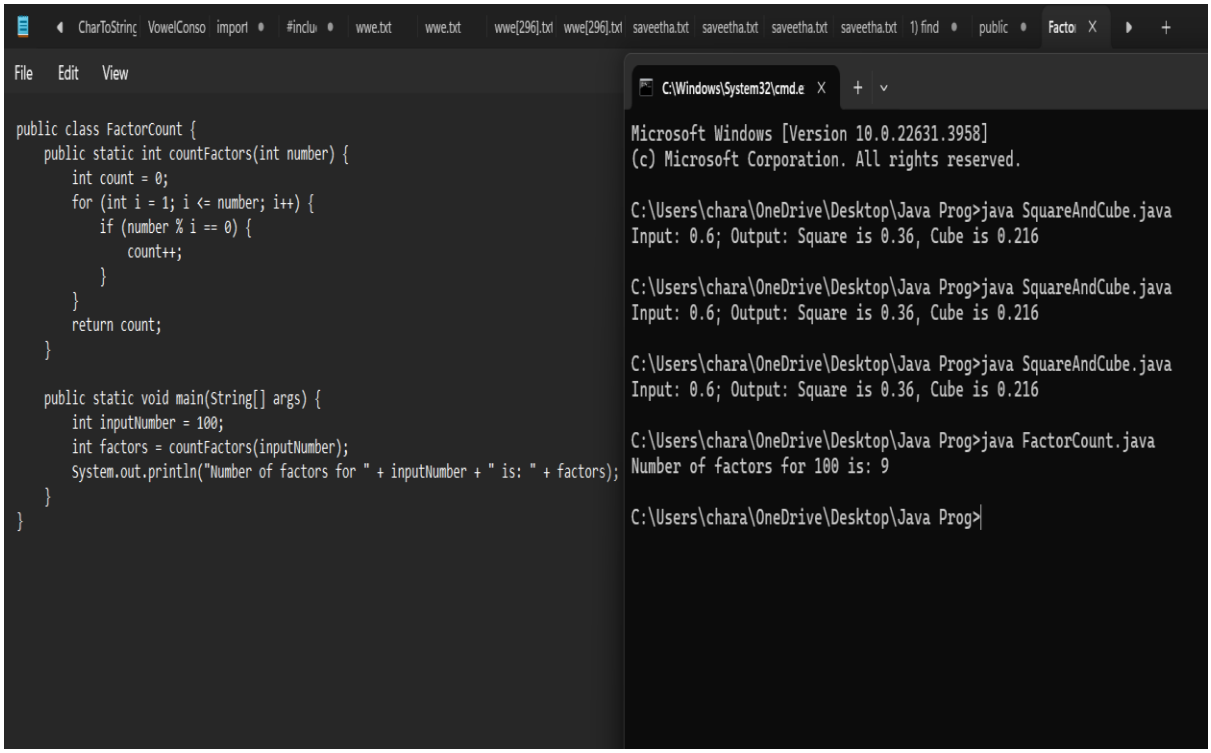
1) find the number of facter for given number

I/p:- 100 o/p:- 9;



```
public class FactorCount {
    public static int countFactors(int number) {
        int count = 0;
        for (int i = 1; i <= number; i++) {
            if (number % i == 0) {
                count++;
            }
        }
        return count;
    }

    public static void main(String[] args) {
        int inputNumber = 100;
        int factors = countFactors(inputNumber);
        System.out.println("Number of factors for " + inputNumber + " is: " + factors);
    }
}
```

```
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C:\Users\chara\OneDrive\Desktop\Java Prog>java SquareAndCube.java
Input: 0.6; Output: Square is 0.36, Cube is 0.216

C:\Users\chara\OneDrive\Desktop\Java Prog>java SquareAndCube.java
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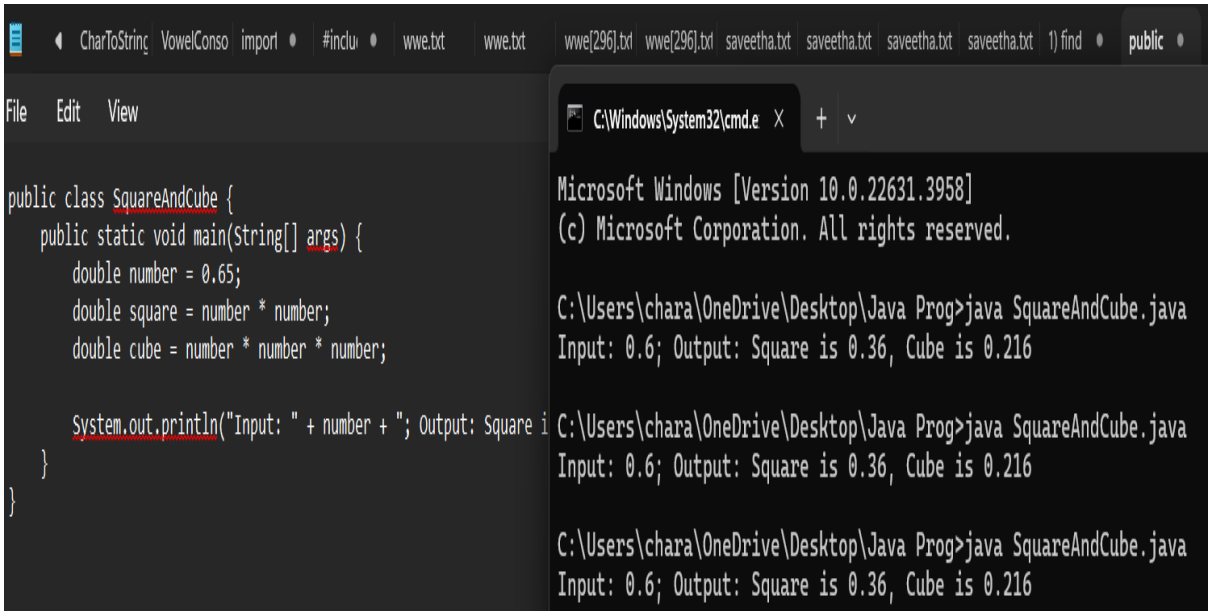
Input: 0.6; Output: Square is 0.36, Cube is 0.216

C:\Users\chara\OneDrive\Desktop\Java Prog>java FactorCount.java
Number of factors for 100 is: 9

C:\Users\chara\OneDrive\Desktop\Java Prog>
```

2) write a square and cube of given number

i/p:-0.6;o/p:-0.36,cube is 0.216.



```
public class SquareAndCube {
    public static void main(String[] args) {
        double number = 0.65;
        double square = number * number;
        double cube = number * number * number;

        System.out.println("Input: " + number + "; Output: Square i
    }
}
```

```
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