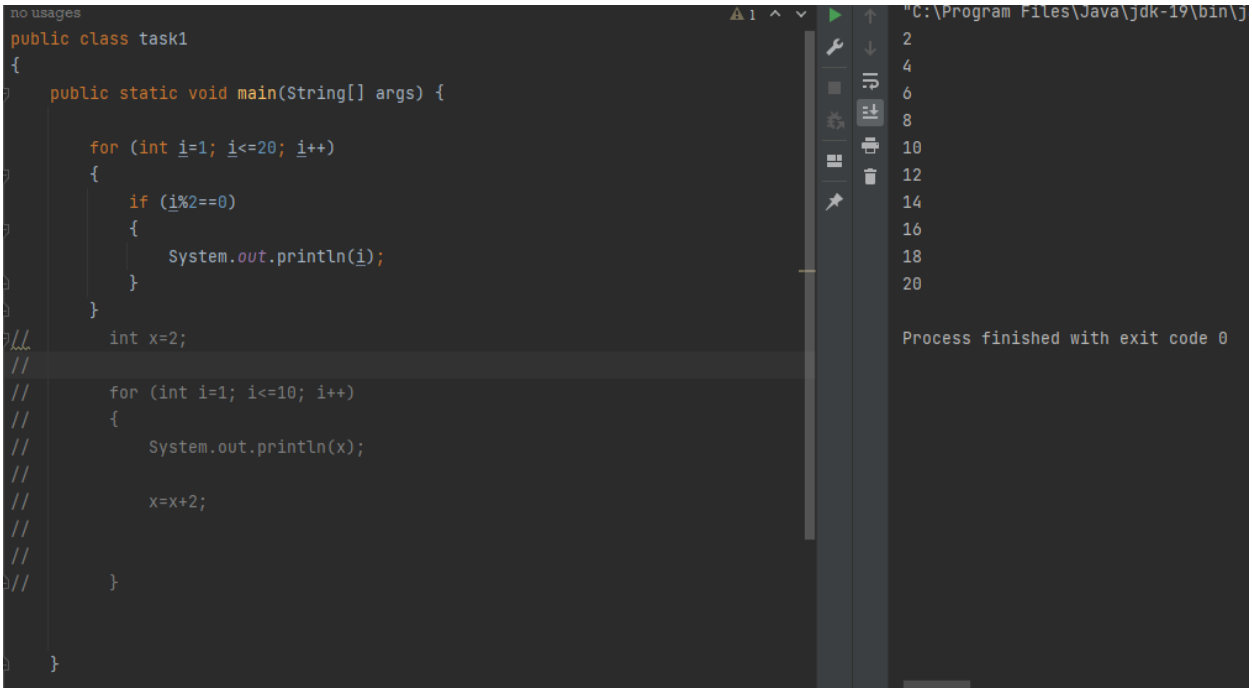
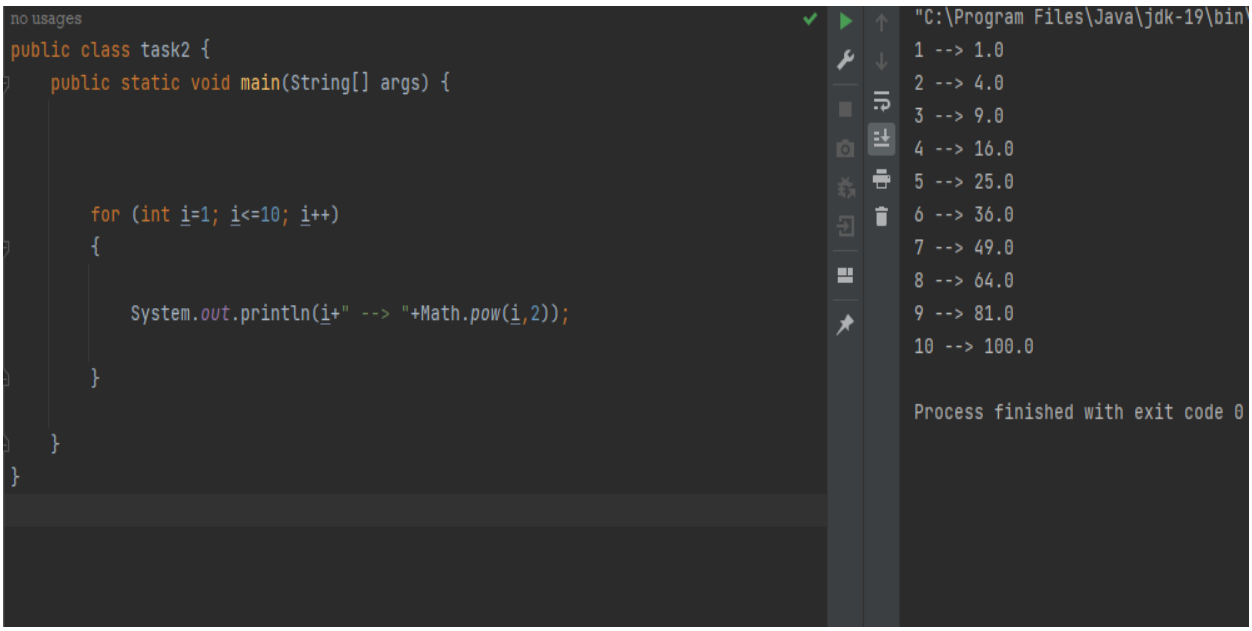
Task 1



```
no usages
public class task1
{
    public static void main(String[] args) {

        for (int i=1; i<=20; i++)
        {
            if (i%2==0)
            {
                System.out.println(i);
            }
        }
//        int x=2;
//
//        for (int i=1; i<=10; i++)
//        {
//            System.out.println(x);
//
//            x=x+2;
//
//
//        }


    }
```

```
"C:\Program Files\Java\jdk-19\bin\j
2
4
6
8
10
12
14
16
18
20

Process finished with exit code 0
```

Task 2



```
no usages
public class task2 {
    public static void main(String[] args) {



        for (int i=1; i<=10; i++)
        {

            System.out.println(i+" --> "+Math.pow(i,2));

        }

    }
}
```

```
"C:\Program Files\Java\jdk-19\bin\
1 --> 1.0
2 --> 4.0
3 --> 9.0
4 --> 16.0
5 --> 25.0
6 --> 36.0
7 --> 49.0
8 --> 64.0
9 --> 81.0
10 --> 100.0

Process finished with exit code 0
```

Task 3

```java
import java.util.Scanner;

no usages
public class task3 {
    public static void main(String[] args) {
        Scanner input =new Scanner(System.in);
        int number =input.nextInt();

        for (int i=1; i<=10; i++)
        {
            System.out.println(number+" "+" x "+i+"="+(i*number));

        }
    }
}
```

```
"C:\Program Files\Java\jdk-19\bin\j
5
5  x 1=5
5  x 2=10
5  x 3=15
5  x 4=20
5  x 5=25
5  x 6=30
5  x 7=35
5  x 8=40
5  x 9=45
5  x 10=50

Process finished with exit code 0
```

Task 4

```java
no usages
public class task4
{
    public static void main(String[] args) {

        int count=0;
        int sum=0;

        for (int i=1; i<=20; i++)
        {

            if (i%2==0)
            {
                count++;
                sum=sum+i;
            }

        }
        System.out.println("Sum of the even from 2 to 20 = "+sum);
        System.out.println("total even numbers = "+count);

    }
}
```

```
"C:\Program Files\Java\jdk-19\bin\j
Sum of the even from 2 to 20 = 110
total even numbers = 10

Process finished with exit code 0
```

Task 5

```java
import java.util.Scanner;

no usages
public class task5 {
    public static void main(String[] args) {
        Scanner input =new Scanner(System.in);

        int num=input.nextInt();
        int fact=1;

        for (int i=num; i>=1; i--)
        {
            fact=fact*i;
        }
        System.out.println("Factorial of the given number is =" +fact);
    }
}
```

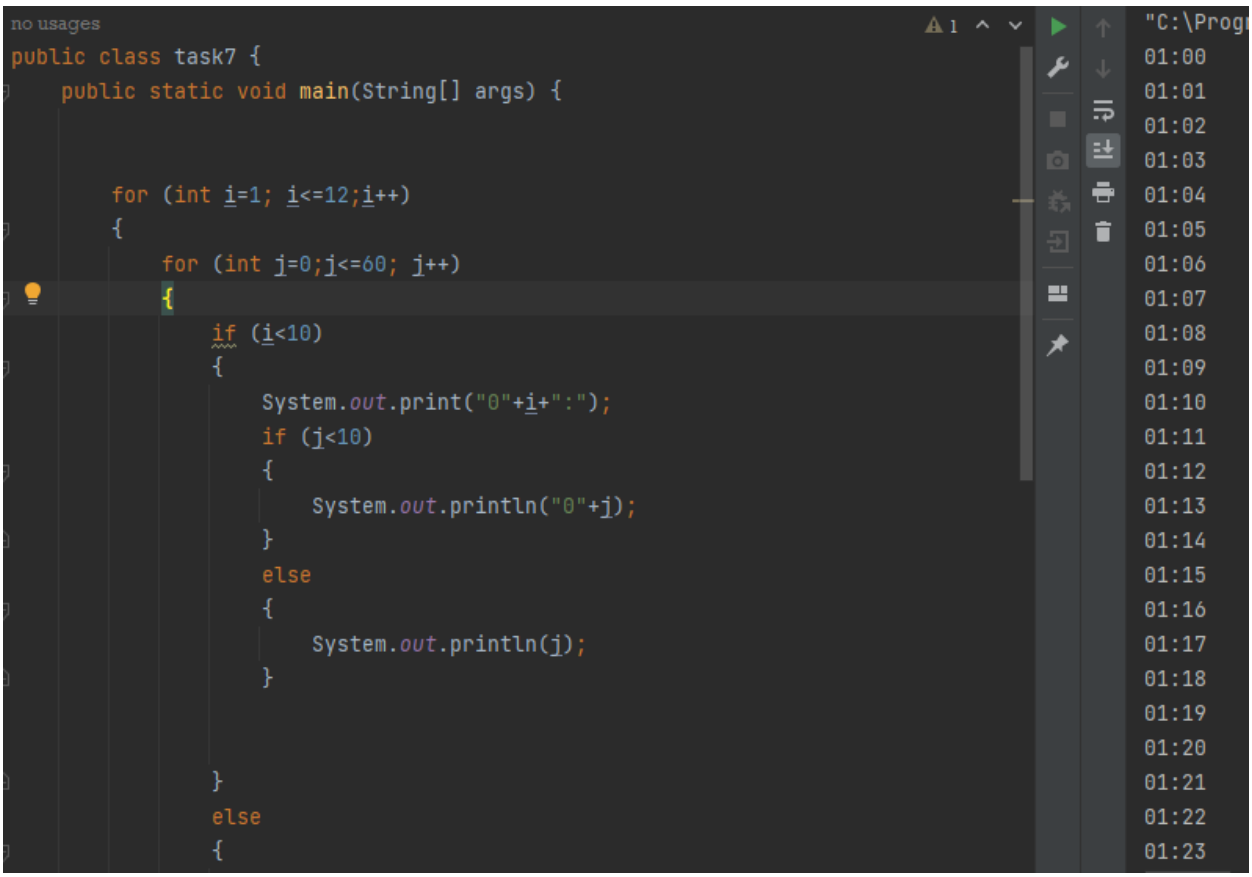
```
"C:\Program Files\Java\jdk-19\bin\java
5
Factorial of the given number is =120

Process finished with exit code 0
```

Task 6

```java
no usages
public class task6 {
    public static void main(String[] args) {


        for (int i=1; i<=4; i++)
        {
            System.out.println("Week "+i);

            for (int j=1; j<=7; j++)
            {
                System.out.println("            Day "+j);

            }
        }


    }
}
```

```
Week 1
            Day 1
            Day 2
            Day 3
            Day 4
            Day 5
            Day 6
            Day 7
Week 2
            Day 1
            Day 2
            Day 3
            Day 4
            Day 5
            Day 6
            Day 7
Week 3
            Day 1
            Day 2
            Day 3
            Day 4
            Day 5
            Day 6
            Day 7
```

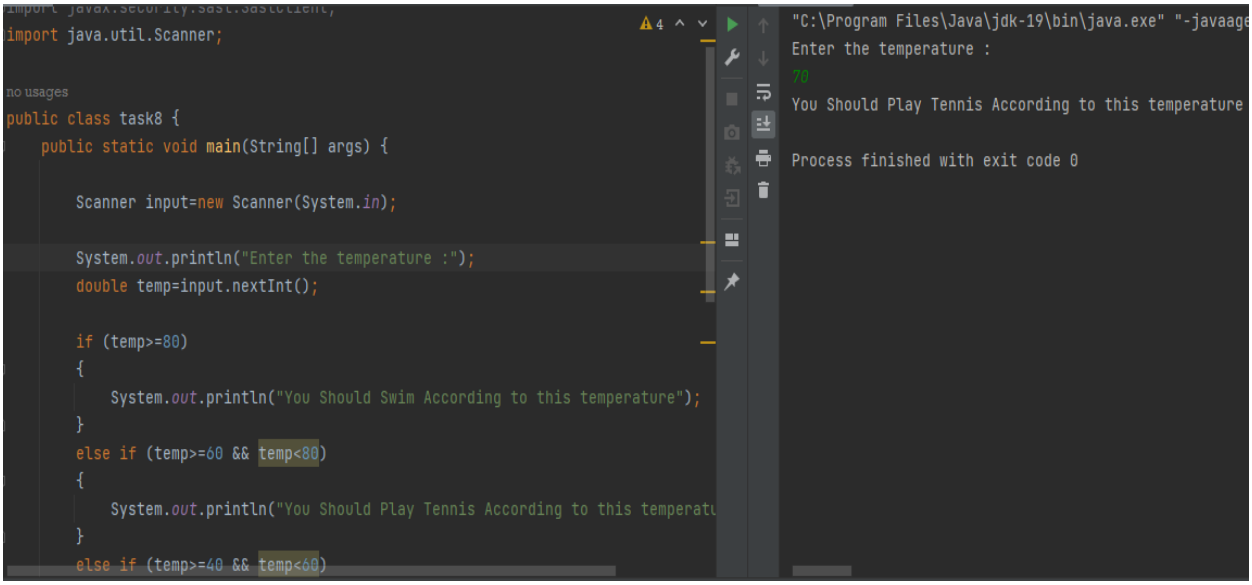
Task 7



```
no usages
public class task7 {
    public static void main(String[] args) {


        for (int i=1; i<=12;i++)
        {
            for (int j=0;j<=60; j++)
            {
                if (i<10)
                {
                    System.out.print("0"+i+":");
                    if (j<10)
                    {
                        System.out.println("0"+j);
                    }
                    else
                    {
                        System.out.println(j);
                    }


                }
                else
                {
```

```
"C:\Progr
01:00
01:01
01:02
01:03
01:04
01:05
01:06
01:07
01:08
01:09
01:10
01:11
01:12
01:13
01:14
01:15
01:16
01:17
01:18
01:19
01:20
01:21
01:22
01:23
```

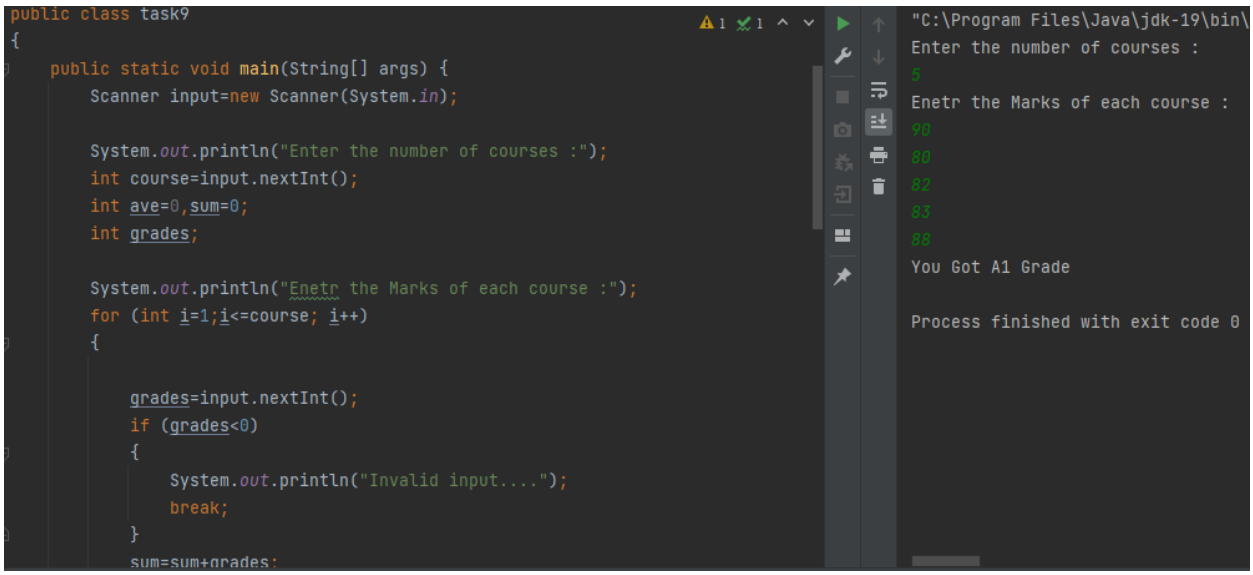
Task 8



```
import java.util.Scanner;

no usages
public class task8 {
    public static void main(String[] args) {

        Scanner input=new Scanner(System.in);

        System.out.println("Enter the temperature :");
        double temp=input.nextInt();

        if (temp>=80)
        {
            System.out.println("You Should Swim According to this temperature");
        }
        else if (temp>=60 && temp<80)
        {
            System.out.println("You Should Play Tennis According to this temperatu
        }
        else if (temp>=40 && temp<60)
```

```
"C:\Program Files\Java\jdk-19\bin\java.exe" "-javaage
Enter the temperature :
70
You Should Play Tennis According to this temperature

Process finished with exit code 0
```

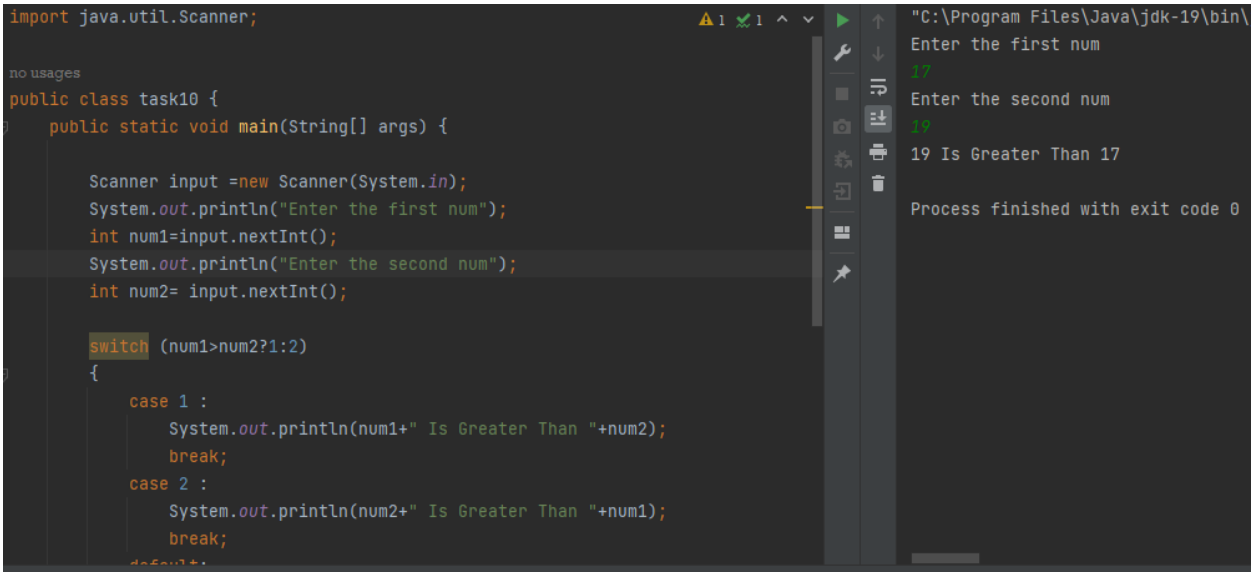
Task 9



```java
public class task9
{
    public static void main(String[] args) {
        Scanner input=new Scanner(System.in);

        System.out.println("Enter the number of courses :");
        int course=input.nextInt();
        int ave=0,sum=0;
        int grades;

        System.out.println("Enetr the Marks of each course :");
        for (int i=1;i<=course; i++)
        {

            grades=input.nextInt();
            if (grades<0)
            {
                System.out.println("Invalid input....");
                break;
            }
            sum=sum+grades;
```

```
"C:\Program Files\Java\jdk-19\bin\
Enter the number of courses :
5
Enetr the Marks of each course :
90
80
82
83
88
You Got A1 Grade

Process finished with exit code 0
```

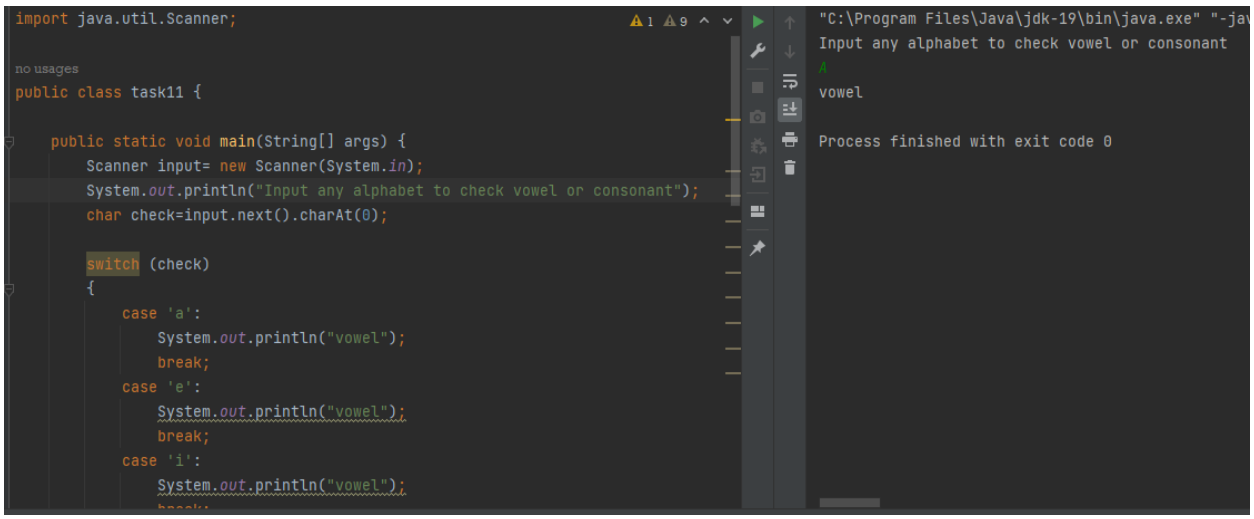
Task 10



```java
import java.util.Scanner;

no usages
public class task10 {
    public static void main(String[] args) {

        Scanner input =new Scanner(System.in);
        System.out.println("Enter the first num");
        int num1=input.nextInt();
        System.out.println("Enter the second num");
        int num2= input.nextInt();

        switch (num1>num2?1:2)
        {
            case 1 :
                System.out.println(num1+" Is Greater Than "+num2);
                break;
            case 2 :
                System.out.println(num2+" Is Greater Than "+num1);
                break;
```

```
"C:\Program Files\Java\jdk-19\bin\
Enter the first num
17
Enter the second num
19
19 Is Greater Than 17

Process finished with exit code 0
```

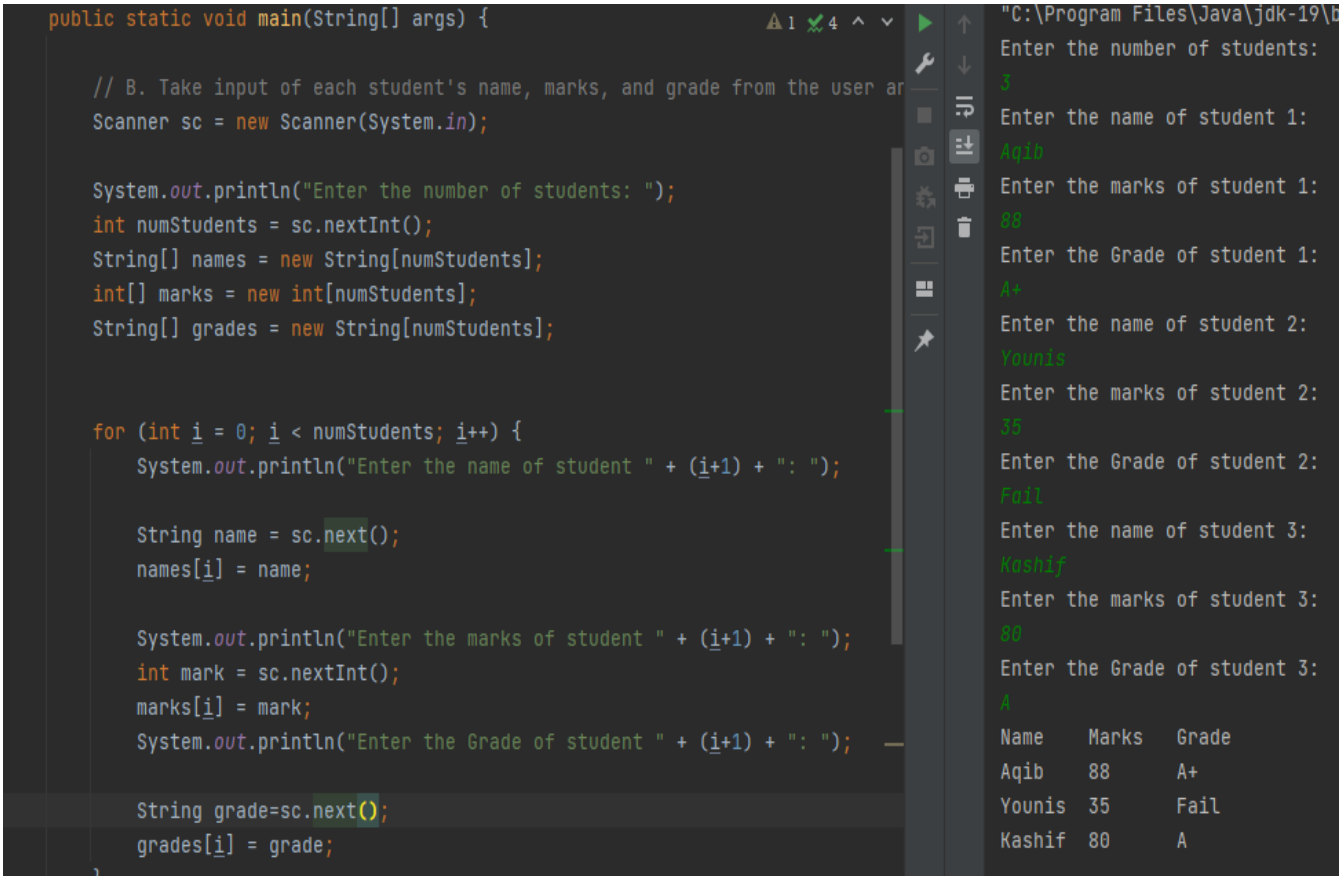
Task 11



```
import java.util.Scanner;

no usages
public class task11 {

    public static void main(String[] args) {
        Scanner input= new Scanner(System.in);
        System.out.println("Input any alphabet to check vowel or consonant");
        char check=input.next().charAt(0);

        switch (check)
        {
            case 'a':
                System.out.println("vowel");
                break;
            case 'e':
                System.out.println("vowel");
                break;
            case 'i':
                System.out.println("vowel");
```

```
"C:\Program Files\Java\jdk-19\bin\java.exe" "-ja
Input any alphabet to check vowel or consonant
A
vowel

Process finished with exit code 0
```

Task 12



```
public static void main(String[] args) {

    // B. Take input of each student's name, marks, and grade from the user ar
    Scanner sc = new Scanner(System.in);

    System.out.println("Enter the number of students: ");
    int numStudents = sc.nextInt();
    String[] names = new String[numStudents];
    int[] marks = new int[numStudents];
    String[] grades = new String[numStudents];


    for (int i = 0; i < numStudents; i++) {
        System.out.println("Enter the name of student " + (i+1) + ": ");

        String name = sc.next();
        names[i] = name;

        System.out.println("Enter the marks of student " + (i+1) + ": ");
        int mark = sc.nextInt();
        marks[i] = mark;
        System.out.println("Enter the Grade of student " + (i+1) + ": ");

        String grade=sc.next();
        grades[i] = grade;
```

```
"C:\Program Files\Java\jdk-19\b
Enter the number of students:
3
Enter the name of student 1:
Aqib
Enter the marks of student 1:
88
Enter the Grade of student 1:
A+
Enter the name of student 2:
Younis
Enter the marks of student 2:
35
Enter the Grade of student 2:
Fail
Enter the name of student 3:
Kashif
Enter the marks of student 3:
80
Enter the Grade of student 3:
A
Name    Marks   Grade
Aqib    88      A+
Younis  35      Fail
Kashif  80      A
```