Q01.

```
"C:\Program Files\Java\jdk-18.0.2.1\bin\java.e
Sum by for loop is 432
Sum by for each is 432
Process finished with exit code 0
```

Q02.

==

```
Run: Q02
        "C:\Program Files\Java\jdk-18.0.2.1\bin\java.exe" "-jav
       Group 1 Average Height: 50.83
       Group 2 Average Height: 58.20
   ₽
       Group 3 Average Height: 52.60
       Group 4 Average Height: 57.17
       Process finished with exit code 0
```

Q03.

```
↑ "C:\Program Files\Java\jdk-1

Seat No Student

------
11 Amali
12 Thilina
13 Vihara
13 Kamal
22 Nimal
23 Sunil

Process finished with exit c
```

Q04

```
public class Q04 {
   public static void main(String[] args) {
       int firstSpace = dateLine.indexOf(" ");
       String secStr = dateLine.substring(firstSpace + 1, firstComma);
       char monthFirstCharPosition = fStr.charAt(0);
       String monthFirstChar =
Character.toString(monthFirstCharPosition).toUpperCase();
  ■ Q04 × ■ Q04
     "C:\Program Files\Java\jdk-18.0.2.1\bin\java.exe" "-jav
     Input the string in this form: december 8, 2024
     1922 March 01
₹
    Process finished with exit code 0
```

Q05.

```
import java.util.Scanner;

public class Q05 {
    public static void main(String[] args) {
        // Write a Java program to order two user input strings lexicographically.
        Sample input and
        // output are given below:
        //
        System.out.println("Enter first String: ");
        Scanner scanObj = new Scanner(System.in);
        String fString = scanObj.nextLine();
        System.out.println("Enter second String: ");
        String secString = scanObj.nextLine();

String Ordered = (fString.compareTo(secString) <0? fString + ", "+secString:secString + ", "+fString);
        System.out.println(Ordered);
    }
}</pre>
```

```
Enter first String:

Apple
Enter second String:
Banana
Apple, Banana
Process finished with ex
```

Q06

```
"C:\Program Files\Java\jdk-18.0.2.1\bin\
Enter your Name: kavindu
Enter your Age:
Enter your Weight in kilograms: 80
Enter your Height in meters: 1.72
Hi kavindu!
Gender: Male
Weight: 80.0 kg
Height: 1.72 m
BMI: 27.04
Category: Overweight
Process finished with exit code 0
```

Q07.

```
"C:\Program Files\Java\jdk-18.0.2.1\bin\java.exe

You entered "$", which is not an alphabet.

Process finished with exit code 0
```

```
"C:\Program Files\Java\jdk-18.0.2.1\bin\java.exe" "-javaagent:0
You entered a lowercase letter g. Converted to uppercase: G
Process finished with exit code 0
```

```
public class Q07 {
    public static void main(String[] args) {
        Write a program to check whether the entered character is a lowercase letter (a to 2) or an
        // uppercase letter (A to Z). If the character is lowercase, convert it to uppercase. If it is
        // uppercase, convert it to lowercase. If the input is not an alphabet, display an appropriate
        // message.
        // If the user input is,
        // a - You entered a lowercase letter "a". Converted to uppercase: "A"
        // D - You entered an uppercase letter "D". Converted to lowercase: "d"
        // @ - You entered "0", which is not an alphabet.
        Scanner scanObj = new Scanner(System.in);
        String enteredOne = scanObj.next();
        char newChar = enteredOne.charAt(0);
        if (Character.isUpperCase(newChar)) {
            System.out.println("You entered a uppercase letter "+newChar+". Converted to lowercase: "+Character.toLowerCase(newChar));
        }
        else if (Character.isLowerCase(newChar));
        System.out.println("You entered a lowercase letter "+newChar+". Converted to uppercase: "+Character.toUpperCase(newChar));
        }
        else {
            System.out.println("You entered \""+newChar+"\", which is not an alphabet.");
        }
    }
}
```

Q08.

```
"C:\Program Files\Java\jdk-18.0.2.1\bin\ja
Enter a number between 1 and 7 =: 5
Friday
Process finished with exit code 0
```

```
import java.util.Scanner;
```

Q09.

```
"C:\Program Files\Java\jdk-18.0.2.1\bin
Enter the first number: 44
Enter the second number: 0
Enter the operator (+, -, *, /, %): /
Division by zero is not allowed.

Process finished with exit code 0

"C:\Program Files\Java\jdk-18.0.2.1\bin
Enter the first number: 44
Enter the second number: 0
Enter the operator (+, -, *, /, %): //
Division by zero is not allowed.

Process finished with exit code 0
```

```
System.out.println("Invalid operator.");
```

## Q10.

```
"C:\Program Files\Java\jdk-18.0.2.1\bin\java.
The sum of the first 100 integers is: 5050

Process finished with exit code 0
```