Create a directory named **lab19** in your **labs** directory. Write a program in a class named **Lab19** that does the following:

1. **If-else Block**
   Ask the user to enter an integer. Read the integer from the keyboard and uses an if-else block to print **greater than 0** if the integer read is greater than zero, otherwise print **not greater than zero**.

2. **?: Operator**
   Ask the user to enter a string. Read the string from the keyboard and uses the ?: operator to set a Boolean variable named **repeat** to **true** if the String that was read is "**yes**", otherwise set **repeat** to **false**. Print the value of the string to the screen.

3. **Switch Statement**
   Ask the user to enter a string. Read the string from the keyboard and uses a switch statement to print **input: A** if the String read is "A", prints **input: B** if the String read is "B", and prints **input: other** otherwise.

4. **While-loop**
   Use a while-loop to print to the screen the numbers between 5 to 20, inclusively, in <u>decreasing</u> order.

5. **For-loop**
   Use a for-loop to print to the screen the numbers between 5 to 20, inclusively, in <u>decreasing</u> order.

6. **Array Declaration**
   Create an array named **array1** that can hold 15 integers.

   Ask the user to enter 15 integers and store them in **array1**.

   Print the elements in the array to the screen on a single line with spaces between them.

7. **2D Array Declaration**
   Create a 3 x 3 2D array of integers named **matrix1**.

   Ask the user to enter 9 integers and store them in **matrix1**.

   Print the elements in **matrix1** to the screen with each row on a separate line and spaces between the elements.

8. **2D Array Element Retrieval**
   Print to the screen (on a single line with spaces between them) all of the <u>even</u> elements in **matrix1**.

9. **2D Array Element Modification**
   Set the elements on the diagonal of matrix2 to 7 and leave all other elements unchanged.

   Print the elements in **matrix1** to the screen with each row on a separate line and spaces between the elements.