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# **TP01**

❖ Lab01.1. Hello One's Name

Implement an application Java that displays "Hello <your\_name>!"
where <your name>

represents your own name. Example, in case your name is: Visal, then:

---My Code

```
public class TP01_1{
  public static void main(String[] args){
      System.out.println("Hello, My name is chan suvannet");
  }
}
```

#### ---Output

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Hello, My name is chan suvannet

C:\$NET♥\File\ITC_java_C\Lap01⟩
```

❖ Lab01.2. Display a Paragraph

Implement an application Java that displays the following output:

```
---My Code
```

#### ---Output

#### ❖ Lab01.3. Asterisks

Write a program in Java to display shapes as below:

---My Code

```
1 public class TP01_3 {
      public static void main(String[] args){
          System.out.println("*****************************);
          System.out.println(" ****************);
          System.out.println(" ***************);
          System.out.println("
                               **************************
          System.out.println("
                                System.out.println("
                                 System.out.println("
                                  System.out.println("
                                   *********");
          System.out.println("
                                    *******");
          System.out.println("
                                     ******");
          System.out.println("
                                       ***");
          System.out.println("
          System.out.println("
          System.out.println("***************");
          System.out.println("*
                                                   *");
          System.out.println("*
          System.out.println("*
          System.out.println("*
          System.out.println("*
                                                   *");
          System.out.println("*
                                                   *");
          System.out.println("*
                                                   *");
          System.out.println("*
                                                   *");
          System.out.println("*
          System.out.println("*
                                                   *");
          System.out.println("*
                                                   *");
                                                   *");
          System.out.println("*
          System.out.println("*
                                                   *");
          System.out.println("*************************");
          System.out.println("1 2 4 3 5");
          System.out.println("2 2 5 3 1");
          System.out.println("2 1 1 4 7");
          System.out.println("1 5 4 6 8");
          System.out.println("7 8 2 1 9");
```

### ---Output

#### ❖ Lab01.4. Table

Write a program in Java to display tables as below with values declared by variables: ---My Code

```
public static void main(String[] args) {
  System.out.println(germany);
System.out.println(line);
  System.out.println("\n**Number 2");
```

❖ Lab01.5. String

---My Code

```
• • •
     public class TP01_5 {
    public static void main(String[] args){
                        String text = "I Love my Home country";
int lengthText = text.length();
System.out.println("***Answer A: ");
System.out.println("The length is: " + lengthText);
                        //B. Write a program using a String function to cut the word "my little country" from a text of "I love my little country":

String cutText = text.substring(7, 22);

System.out.println("***Answer B: ");

System.out.println("Cut Text." "cut.")
                        //C. Write a program using a String function to find the index position of vowels in a text of "Hi Students!": String textNumberC ="Hi Students";
System.out.println("***Answer C: ");
                        System.out.println( "*Answer C: );
String vowel = "aeiouAEIOU";
System.out.println(textNumberC);
for(int i = 0; i<textNumberC.length(); i++){
    char ch = textNumberC.charAt(i);
    if(vowel.indexOf(ch) != -1){
        System.out.println("\"" + ch + "\" is at index: " + i);
    }
}</pre>
                        //D. Write a program using a String function check if two texts are equal
String text1 = "Hi Students!";
String text2 = "Students";
String text3 = "Hi Students!";
boolean isEqualland2 = text1.equals(text2);
boolean isEqualland3 = text1.equals(text3);
                        System.out.println("Text1 is equal to Text2: " + isEqualland2);
System.out.println("Text1 is equal to Text3: " + isEqualland3);
                        //E. Write a program using a String function check if a text contains in another text
String text4 = "Hi Students!";
String text5 = "Students";
String text6 = "Hello";
                        boolean containsText2 = text4.contains(text5);
boolean containsText3 = text4.contains(text6);
System.out.println("***Answer E: ");
                         System.out.println("Text4 contains Text5: " + containsText2);
System.out.println("Text4 contains Text6: " + containsText3);
```

#### ---Output

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
***Answer A:
The length is: 22
***Answer B:
Cut Text: my Home country
***Answer C:
Hi Students
"i" is at index: 1
"u" is at index: 5
"e" is at index: 7
***Answer D:
Text1 is equal to Text2: false
Text1 is equal to Text3: true
***Answer E:
Text4 contains Text5: true
Text4 contains Text6: false
C:\$NET♥\File\ITC_java_C\Lap01>
```

### ❖ Lab01.6. Class & Object

Create a model following objects:

- Employee
- Car
- BankAccount
- Video

## \*\*\*Employee

1. Create a model of "Employee" class

	Datatype	Variable Name
	String	name
Employee	int	id
	String	position
	double	salary

2. Create objects from "Employee" class

Object 1

Variable	Value
name	Chan Suvannet
id	1234
position	Hacker
salary	\$150.99

## Object 2

Variable	Value
name	Chan Suvannet
id	1234
position	Hacker
salary	\$150.99

## ---My code

```
1 class Employee {
2   String name;
3   int id;
4   String position;
5   double salary;
6 }
7
```

# \*\*\*Car

1. Create a model of "Car" class

Car	Datatype	Variable Name
	String	model
	String	color
	int	year
	double	price

## 2. Create objects from "Car" class

Object 1

Variable	Value
model	Lamborghini
color	pink
year	2023
price	\$25.99

## Object 2

Variable	Value
model	GTR R35
color	yellow
year	2021
price	\$14.99

#### ---My code

```
1 lass Car {
2   String model;
3   String color;
4   int year;
5   double price;
6 }
```

## \*\*\*Video

1. Create a model of "Video" class

	Datatype	Variable Name
	String	tittle
Video	String	subtitle
	int	duration
	int	releaseYear
	int	quality

## 2. Create objects from "Video" class

## Object 1

Variable	Value
tittle	Zero to master to become hacker
subtitle	When you finished this course, you will become hacker
duration	120
releaseYear	2023
quality	1080

#### Object 2

Variable	Value
tittle	OOP course for free
subtitle	The best course for student at itc
duration	60
releaseYear	2023
quality	180

#### ---My code

```
1 class Video {
2   String tittle;
3   String subtitle;
4   int duration;
5   int releaseYear;
6   int quality;
7 }
```

Note: Hello teacher, if you want to see my code clearly, you can expand it because I took a screenshot with codeSnap.

Githup: https://github.com/ChanSuvannet/Lap01.git