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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

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

\n
\t
\'
\"
\\/
\"
\//
/*...*/
""""

Text here
""""

C:\$NET\File\ITC_java_C\Lap01>
```

#### ❖ Lab01.3. Asterisks

Write a program in Java to display shapes as below: ---My Code

```
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) {
  | Name | Profession | Age |";
| Michael | Computer Engineer | 19 |";
| Artist | 34 |";
  System.out.println(germany);
System.out.println(line);
  System.out.println(england);
System.out.println(line);
   System.out.println("\n**Number 2");
```

### ❖ Lab01.5. String

#### ---My Code

```
String text = "I Love my Home country";
int lengthText = text.length();
System.out.println("***Answer A: ");
System.out.println("The length is: " + lengthText);
//C. Write a program using a String
String textNumberC ="Hi Students";
//D. Write a program using a String function
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: " + isEqual1and2);
System.out.println("Text1 is equal to Text3: " + isEqual1and3);
//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("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
	int	timeWork

2. Create objects from "Employee" class
 Object 1

Variable	Value
name	Chan Suvannet
id	1234
position	Hacker
salary	150.99
timeWork	8

Object 2

Variable	Value
name	Hai kimsreng
id	1234
position	Hacker
salary	150.99
timeWork	5

---My code

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

# \*\*\*Car

1. Create a model of "Car" class

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

2. Create objects from "Car" class

Object 1

Variable	Value
model	Lamborghini
color	pink
year	2023
price	25.99
madeFrom	USA

Object 2

Variable	Value	
model	GTR R35	
color	yellow	
year	2021	
price	14.99	
madeFrom	USA	

---My code

```
1 class Car {
2   String model;
3   String color;
4   int year;
5   double price;
6   String madeFrom;
7 }
8
```

# \*\*\*BankAccount

1. Create a model of "BankAccount" class

	Datatype	Variable Name
	String	AccountHolder
BankAccount	String	AccountNumber
	double	balance
	double	withdraw
	double	deposit

2. Create objects from "BankAccount" class
 Object 1

Variable	Value
AccountHolder	Chan Suvannet
AccountNumber	12345678
balance	100
withdraw	10
deposit	50

### Object 2

Variable	Value
AccountHolder	Hai kimsreng
AccountNumber	43504323
balance	100
withdraw	10
deposit	50

### ---My code

# \*\*\*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 }
```

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