**FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERIG**

**Department of Computer Engineering**

**Experiment 3- Based on Pre-defined class.**

1. **Course Details:**

| **Academic Year** | **2023 - 24** | **Estimated Time** | **Experiment No. 3 – 02 Hours** |
| --- | --- | --- | --- |
| **Course & Semester** | **S.E. (COMP) – Sem. III** | **Subject Name** | **Skill based lab Course-OOP with Java** |
| **Module No.** | **02** | **Chapter Title** | **Class, Object, Packages and Input/Output** |
| **Experiment Type** | **Software Performance** | **Subject Code** | **CSL304** |
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| **Name of Student** | Vivian Vijay Ludrick | **Roll No.** | 9914 |
| --- | --- | --- | --- |
| **Date of Performance:** | 9/8/23 | **Date of Submission:** | 18/8/23 |
| **CO Mapping** | **CSL304.2: Illustrate the concept of packages, classes, and objects** | | |

| **Timeline**  **(2)** | **Preparedness**  **(2)** | **Effort**  **(3)** | **Result**  **(3)** | **Total (10)** |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |

**Problem Statements:**

**1.Based on predefined class**

**Random class -month-thought**

Description: Write a program to display a different quote each day of the year as the Thought of the day. The program should pick a random quote from an array of Quotes you provide and display it with the current date.

(Hint: Use Random/Math class to generate random nos, Date class to print current date)

import java.util.Date;

import java.util.Random;

public class ThoughtOfTheDay {

private static final String[] QUOTES = {

"The greatest glory in living lies not in never falling, but in rising every time we fall. -Nelson Mandela",

"The way to get started is to quit talking and begin doing. -Walt Disney",

"Your time is limited, don't waste it living someone else's life. -Steve Jobs",

"If life were predictable it would cease to be life, and be without flavour. -Eleanor Roosevelt",

"If you look at what you have in life, you'll always have more. -Oprah Winfrey",

"If you set your goals ridiculously high and it's a failure, you will fail above everyone else's success. -James Cameron",

"Life is what happens when you're busy making other plans. -John Lennon",

"Spread love everywhere you go. Let no one ever come to you without leaving happier. -Mother Teresa",

"When you reach the end of your rope, tie a knot in it and hang on. -Franklin D. Roosevelt",

"The best and most beautiful things in the world cannot be seen or even touched - they must be felt with the heart. -Helen Keller"

};

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

*// Get current date*

Date currentDate = new Date();

*// Generate random index to select a quote*

Random random = new Random();

int quoteIndex = random.nextInt(QUOTES.length);

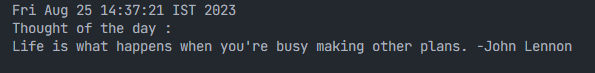
*// Display quote with current date*

System.out.println( currentDate + "\nThought of the day :\n" + QUOTES[quoteIndex]);

}

}

**OUTPUT:**

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**2.Based on function**

**Fibonacci series generator**

Description: Write a class **Fibo** with function to generate and print the fibonacci term. WAP to read term number in **main** method and pass value to method present in **Fibo** class.

**CODE:**

import java.util.Scanner;

class Fibo {

public static void generateFibonacci(int *n*) {

int firstTerm = 0;

int secondTerm = 1;

System.out.print("Fibonacci Series: ");

for (int i = 1; i <= *n*; i++) {

System.out.print(firstTerm + " ");

int nextTerm = firstTerm + secondTerm;

firstTerm = secondTerm;

secondTerm = nextTerm;

}

}

}

public class FibonacciPrinter {

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

Scanner scanner = new Scanner(System.in);

System.out.print("Enter the number of terms: ");

int n = scanner.nextInt();

Fibo.generateFibonacci(n);

}

}

**OUTPUT:**

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