IK22

Instalasi Serta Pengujian JDK8 dan Netbeans

Disusun Oleh :

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PROGRAM STUDI PENDIDIKAN ILMU KOMPUTER

FAKULTAS PENDIDIKAN MATEMATIKA DAN ILMU PENGETAHUAN ALAM

UNIVERSITAS PENDIDIKAN INDONESIA

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1. Implementasi dan Hasil

Implementasi dan Hasil

1. The area of a hexagon can be calculated using the following formula (s is the length side)

$$Area = \frac{6 \times s^2}{4 \times \tan\left(\frac{\pi}{6}\right)}$$

Write a program to calculate the area of Hexagon. The input is the length of the side and the output is the area of Hexagon.

a. Source code

```
1  import java.io.*;
2  import java.util.*;
3
4  public class Solution {
5
6      public static void main(String[] args) {
7          /* Enter your code here. Read input from STDIN. Pri
8          double area;
9          Scanner input = new Scanner(System.in);
10
11         double s = input.nextDouble();
12         area = (6*((s*s))/(4*Math.tan(Math.PI/6)));
13
14
15         System.out.printf("%.2f\n",area);
16     }
17 }
```

b. Score

Challenges	Iklima_2008765 (1st)
Area of Hexagon	100.00pts (27:29)
Full name of the month	100.00 (93:01)
Ascending the Country	100.00 (175:45)
Define Anagram	100.00 (71:51)

2. Write a program to print name of a month and the number of its day by input 3 first characters of the month and its year.

   a. Source code

```java
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        /* Enter your code here. Read input from STDIN. Print output to STDOUT. You
    Scanner input = new Scanner(System.in);
    String month = input.next();
    int year = input.nextInt();
    int TahunKabisat = year%4;

    switch (month){
        case "Jan":
        System.out.print("31 days in January " + year);
        break;
        case "Feb" :
            if (TahunKabisat%4==0) {
                System.out.print("29 days in February " + year);
                }
            else{
                System.out.print("28 days in February " + year);
            }
        break;
        case "Mar" :
            System.out.println("31 days in March " + year);
        break;
        case "Apr" :
            System.out.println("30 days in April " + year);
        break;
        case "May" :
            System.out.println("31 days in May " + year);
        break;
        case "Jun" :
            System.out.println("30 days in June " + year);
        break;
        case "Jul" :
            System.out.println("31 days in July " + year);
        break;
        case "Aug" :
            System.out.println("31 days in August " + year);
        break;
        case "Sep" :
            System.out.println("30 days in September " + year);
        break;
        case "Oct" :
            System.out.println("31 days in October " + year);
        break;
        case "Nov" :
            System.out.println("30 days in November " + year);
        break;
        case "Dec" :
            System.out.println("31 days in December " + year);
        break;

        }
    }
}
```

   b. Score

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Define Anagram	100.00 (71:51)

3. Give n string of Country name, you have to print all the city name in ascending.

   a. Source code

```java
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        /* Enter your code here. Read input from STDIN. Print output to
         int n;
        Scanner ky = new Scanner(System.in);
        String sc1, sc2;
        n = ky.nextInt();

        if(n >= 0 && n < 50){
            String[] namaNegara = new String[n];

            // input nama negara
            for(int i = 0; i< n ;i++){
                namaNegara[i] = ky.next();
            }

            // close
            ky.close();

            // urutkan

            for(int i = 0; i < n - 1; i++){
                for(int j = i + 1; j < namaNegara.length; j++){
                        sc1 = namaNegara[i].toLowerCase();
                        sc2 = namaNegara[j].toLowerCase();
                            if(sc1.compareTo(sc2) > 0){
                                String temp = namaNegara[i];
                                namaNegara[i] = namaNegara[j];
                                namaNegara[j] = temp;
                            }
                }
            }


            // tampilkan
            for(int i = 0; i < n; i++){
                System.out.println(namaNegara[i]);
            }
        }
    }
}
```

   b. Score

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Define Anagram	100.00 (71:51)

4. Two strings are called anagrams if they contain all the same characters in the same frequencies. For this challenge, the test is not case-sensitive. For example, the anagrams of CAT are CAT, ACT, tac, TCA, aTC, and CtA. if the words is anagram print "anagram" if the words is not anagram print "not anagram"

   a. Source code

```
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        /* Enter your code here. Read input from STDIN. Print output to S
        Scanner input = new Scanner(System.in);

        String string1 = input.nextLine();
        String string2 = input.nextLine();

        boolean status = true;
        if (string1.length() != string2.length()){
            status = false;
        }
        else{
            char[] ArrayS1 = string1.toLowerCase().toCharArray();
            char[] ArrayS2 = string2.toLowerCase().toCharArray();
            Arrays.sort(ArrayS1);
            Arrays.sort(ArrayS2);
            status = Arrays.equals(ArrayS1, ArrayS2);
        }

        if (status) {
        System.out.print("anagram");
        }
        else {
        System.out.print("not anagram");
        }
    }
}
```

b. Score

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