Day 20 coding Statement : Write a program to identify if the number is Prime number or not

Description : Get a number as input from the user and check whether that number is prime or not.

A prime number is a number with factors as 1 and that number itself.

Input : 1

Output : 1 is not a prime number

Input : 5

Output : 5 is a prime number

Program :

```java
package com.talentbattle.codingchallenge;

import java.util.Scanner;

public class Prime {
	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Scanner scan = new Scanner(System.in);
		System.out.println("Enter a Number ");
		int n = scan.nextInt();
		int count = 0;

		if(n==0 || n==1)
		{
			System.out.println("Not a prime Number");
		}
		else
		{
			for(int i=2;i<n;i++)
			{
				if(n%i == 0)
				{
					count++;
					break;
				}
			}
			if(count == 0)
			{
				System.out.println("Prime Number");
			}
			else
			{
				System.out.println("Not a prime Number");
			}
		}

	}

}
```

```
}
```

Project Explorer

- Sudeep
  - JRE System Library [jdk-19]
  - src
    - (default package)
    - com.kodnest.programs
    - com.talentbattle.codingchallenge
      - alphabet_or_not.java
      - Armstrong.java
      - ascii_output.java
      - day1_vowel_consonant.java
      - days_in_a_month.java
      - factor.java
      - factorial.java
      - fraction.java
      - Number_of_digits.java
      - odd_or_even.java
      - package-info.java
      - Perfect_Number.java
      - positive_or_negative.java
      - practice_statement.java
      - Prime.java
      - quadrant.java
      - Qudratic_equation.java
      - roots.java
      - Strong_number.java

array_ds.java   Qudratic_equ...   Armstrong.java   Prime.java

```java
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public class Prime {

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        // TODO Auto-generated method stub
        Scanner scan = new Scanner(System.in);
        System.out.println("Enter a Number ");
        int n = scan.nextInt();
        int count = 0;

        if(n==0 || n==1)
        {
            System.out.println("Not a prime Number");
        }
        else
        {
            for(int i=2;i<n;i++)
            {
                if(n%i == 0)
                {
                    count++;
                    break;
                }
            }
            if(count == 0)
            {
                System.out.println("Prime Number");
            }

        }

    }

}
```

Console

<terminated> Prime [Java Application] C:\Program Files\Java\jdk-19
Enter a Number
1
Not a prime Number

Type here to search   26°C   Haze   8:50 PM
                                                                   12/5/2022