

## Day 16 coding Statement : Write a program to identify if the number is Perfect number or not

### Description

Get the input from the user and check whether that number is a perfect number or not.

E.g. Let number is 28, factors of 28 are 1,2,4,7,14. Now the sum of all these factors are 28 itself.

### Input

28

### Output

Perfect Number

### Input

4

### Output

Not a perfect number

### Code :

```
// Day 16 coding Statement :
```

```
// Write a program to identify if the number is Perfect number or not
```

```
import java.util.Scanner;
```

```
public class Day_16
```

```
{
```

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

```
        Scanner sc=new Scanner(System.in);
```

```
        System.out.print("Enter number : ");
```

```
        int num=sc.nextInt();
```

```
        int perfectNum=1;
```

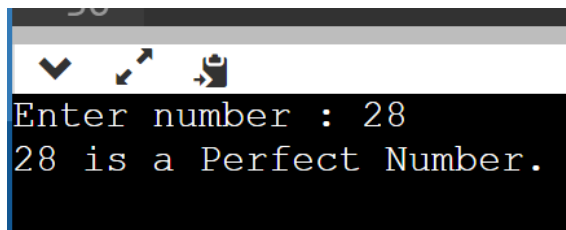
```
        for(int i=2;i<=num/2;i++)
```

```
        {
```

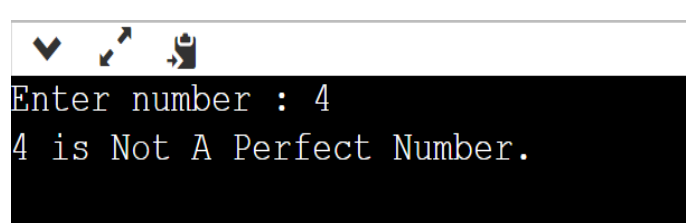
```
        if(num%i==0)
        {
            perfectNum+=i;
        }
    }

    if(num==perfectNum)
    {
        System.out.print(num+" is a Perfect Number.");
    }else{
        System.out.print(num+" is Not A Perfect Number.");
    }
}
```

**Output :**

A terminal window with a dark background and light-colored text. The prompt 'Enter number : 28' is followed by the output '28 is a Perfect Number.'.

```
Enter number : 28
28 is a Perfect Number.
```

A terminal window with a dark background and light-colored text. The prompt 'Enter number : 4' is followed by the output '4 is Not A Perfect Number.'.

```
Enter number : 4
4 is Not A Perfect Number.
```