Solution Code

```java
import java.io.*;

import java.util.*;

public class PetersonNumber

{

//an array is defined for the quickly find the factorial

static long[] factorial = new int[] { 1, 1, 2, 6, 24, 120, 720, 5040, 40320,
362880, 3628800, 39916800, 479001600};


public static void main(String args[])

{


Scanner sc = new Scanner(System.in);

System.out.print("Enter a number to check: ");

//reading a number from the user

int n=sc.nextInt();

//calling the user-defined function to check Peterson number

if (isPeterson(n))

System.out.println("The given number is a Peterson number.");

else

System.out.println("The given number is not a Peterson number.");

}

//function to check the given number is Peterson or not

static boolean isPeterson(int n)

{

int num = n;

int sum = 0;
```

```
while (n > 0)
{
//determines the last digit of the given number
int digit = n % 10;
//determines the factorial of the digit and add it to the variable sum
sum += factorial[digit];
//removes the last digit of the given number
n = n / 10;
}
//compares sum with num if they are equal returns the number itself
return (sum == num);
}
}
```