

Assignment-3

1. Print the Pattern

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

```
public class Pattern
```

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

```
    Scanner input = new Scanner (System);
```

```
    char c = input.nextInt();
```

```
    for (int i = 1; i <= n; i++)
```

```
    {
```

```
        for (int j = 1; j <= n; j++)
```

```
        {
```

```
            System.out.print (c);
```

```
        }
```

```
        System.out.print ( " ");
```

```
    }
```

2. Leap year or not

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

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

```
    Scanner input = new Scanner (System.in)
```

```
    System.out.print ("Enter year");
```

```
    String year = input.next();
```

```
    String[] a = year.split (" ");
```

```
string d = a[0];
```

```
int num = Integer.parseInt(d)
```

```
if (num % 4 == 0 & num % 100 != 0) num % 400 == 0)
```

```
System.out.print("it is a leap year");
```

```
else:
```

```
System.out.println("it is not leap year");
```

⑤ Find the number of factors?

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

```
public class Java8
```

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

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

```
int n = input.nextInt();
```

```
int factors = 0;
```

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

```
{
```

```
if (n % i == 0)
```

```
factors = factors + 1; }
```

```
System.out.print("number of factors");
```

Q Perfect or not

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

```
public class Perfect {
```

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

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

```
        int n = input.nextInt();
```

```
        int factors = 0;
```

```
        for (int i = 1; i <= n; i++)
```

```
        {
```

```
            if (n % i == 0)
```

```
                factors = factors + 1;
```

```
        }
```

```
        if (n == factors)
```

```
            System.out.println("It is a perfect number");
```

else:

```
            System.out.println("It is not a perfect number");
```

5 Print the number of vowels

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

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

```
{ Scanner input = new Scanner (System.in)
```

```
String name = name.length();
```

```
char arr[] = new char[n];
```

```
int row = 0;
```

```
for (i=0; i<n; i++)
```

```
{
```

```
arr[i] = new char(1);
```

```
if (arr[i] == 'a' || arr[i] == 'e' || arr[i] == 'i' || arr[i] == 'o' || arr[i] == 'u')
```

```
row = row + 1;
```

```
}
```

```
System.out.println (row);
```

```
}
```

find session, rate of the given desired number

until given until session;

public class SessionRate {

public static void main (String args[]) {

Scanner input = new Scanner (System.in);

int sessionRate (int n) {

System.out.print ("Rate " + n + " is ");

}

}

Print the Session

input given until session;

public class SessionRate;

public static void main (String args[]) {

Scanner input = new Scanner (System.in);

int n; input.next int ();

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

{

for (int j = 1; j <= i; j++) {

System.out.print (j); } }

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Fibonacci Series

import java.util.Scanner;

public class fibonacci {

public static void main (String args) {

Scanner input = new Scanner (System.in);

int n = input.nextInt();

int a1 = 0 a2 = 1;

for (int i = 0; i < n; i++)

{
System.out.print (a1 + " ");

a1 = a2;

a2 = a3;

}

}

}