



JAVA SAMPLE PROGRAMS



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Java Basic Programs :

1. Fibonacci series:

```
    Int n1=0, n2=1, l, count=10;

    System.out.println("n1" + "n2");

    For(i=2;i<count;i++)

{

    N3=n2+n1;

    System.out.println(n3);

    N1=n2;

    N2=n3;

}
```

2.Triangle:

Eg: 1: 1

1 1

1 1 1

1 1 1 1

Int a1=1; l, j;

For (int i=0;i<5;i++)

```
{

    For(j=0;j<=l;j++)

    {

        System.out.print(a+ " ");

    }

    System.out.println();

}
```

```

3) 1
   21
  321
 4321
54321
654321
7654321
87654321
987654321
10987654321

```

```

int lines =10;
    for (int i = 1; i <= lines; i++){
        System.out.print(" ");
        for (int j = lines; j > 0; j--)
            System.out.print (j > i ? " " : j);
        System.out.println();
    }
}

```

4) Flyod's Triangle

Eg:

```

1
2 3
4 5 6
7 8 9 10

```

Int n=10,num=1;

```

for ( int i = 1 ; i <= n ; i++ )
{
    for ( int j = 1 ; j <= i ; j++ )
    {
        System.out.print(num+" ");
        num++;
    }
    System.out.println();
}

```

5) ReverseNumber

```
public class FindReverseNumber
{
    public static void main(String[] args)
    {
        //number defined
        int number = 1234;
        int reversedNumber = 0;
        int temp = 0;
        while(number > 0)
        {
            //modulus operator used to strip off the last digit
            temp = number%10; //create reversed number
            reversedNumber = reversedNumber * 10 + temp; number = number/10;
        }
        //output System.out.println("Reversed Number is: " + reversedNumber);
    }
}
```

6) JavaPalindromeNumberExample

```
public class JavaPalindromeNumberExample {
    public static void main(String[] args) {
        //array of numbers to be checked
        int numbers[] = new int[]{121,13,34,11,22,54};
        //iterate through the numbers
        for(int i=0; i < numbers.length; i++){
            int number = numbers[i];
            int reversedNumber = 0;
            int temp=0;
            /*
```

```

    * If the number is equal to it's reversed number, then
    * the given number is a palindrome number.
    * For example, 121 is a palindrome number while 12 is not.
    */

//reverse the number
while(number > 0){
    temp = number % 10;
    number = number / 10;
    reversedNumber = reversedNumber * 10 + temp;
}
if(numbers[i] == reversedNumber)
    System.out.println(numbers[i] + " is a palindrome number");
else
    System.out.println(numbers[i] + " is not a palindrome number");
}
}
}
/*
Output of Java Palindrome Number Example would be
121 is a palindrome number
13 is not a palindrome number
34 is not a palindrome number
11 is a palindrome number
22 is a palindrome number
54 is not a palindrome number
*/

```

7)Invert Pyramid Triangle

```
public class JavaPyramid2 {  
  
    public static void main(String[] args) {  
        for(int i=5; i>0 ;i--){  
            for(int j=0; j < i; j++){  
                System.out.print("*");  
            }  
            //generate a new line  
            System.out.println("");  
        }  
    }  
}
```

Output of the **example** would be

```
*****  
****  
***  
**  
*
```

8) GeneratePrimeNumbersExample

```
public class GeneratePrimeNumbersExample {  
    public static void main(String[] args) {  
        //define limit  
        int limit = 100;  
        System.out.println("Prime numbers between 1 and " + limit);  
        //loop through the numbers one by one  
        for(int i=1; i < 100; i++){
```

```

        boolean isPrime = true;

        //check to see if the number is prime
        for(int j=2; j < i ; j++){
            if(i % j == 0){
                isPrime = false;
                break;
            }
        }

        // print the number
        if(isPrime)
            System.out.print(i + " ");
    }
}
/*

```

Output of Prime Numbers example would be

Prime numbers between 1 and 100

1 2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97

9. Program to read from file line by line:

bufferedReader class provides readLine method to be used to read the file line by line.

```

public static void readFile() throws FileNotFoundException {
    FileReader fr = new FileReader("C:\\Users\\...\\Desktop\\unused.txt");
    BufferedReader br = new BufferedReader(fr);
    StringBuffer str = new StringBuffer();
    try {
        while (br.readLine() != null){
            str.append(br.readLine());
        }
    } catch (IOException e) {
        e.printStackTrace();
    }
    System.out.println(str);
}

```
