JAVA BASIC PROGRAMS

By : @curious-.programmer.

1] Fibbonacci Series in Java

→

```
class fibonacciExample {
    Pubiic static void main (string args[])
    {
      int n1=0, n2=1, n3, i, count = 10;
      System.out.print (n1 + " " + n2);

      for (i=2; i<count ; ++i)
      {
        n3 = n1+n2
        system.out.print (" " +n3);
        n1 = n2;
        n2 = n3;
      }
    }
}
```

output :

0 1 1 2 3 5 8 13 21 34

2) prime number program in Java.

→

```
public class primeNumbers {
    Public static void main (String args[])
    {
      int i, m=0, count = 0;
      int n=3;
      m = n/2;                    @curious_.programmer
      if(n==0)
      if (n ==0 || n ==1) {
            System.out.println(n+" is not
                                prime num");
      }
      else {
        for(i=2; i<=m; i++) {
          if(n%i ==0)
          {
           System.out.println (n+" is not prime
                                number");
           count=1;
           break;
          }
        }
    if (flag==0) {
    System.out.println (n+" is prime
                        number); }}}
```

output :

7 is prime number.

3] Factorial program in Java

→

```
class FactorialExample1 {
    public static void main (String args []) {
    int i, fact = 1;
    int number = 5;
    for (i=1; i<=number; i++){
        fact = fact * i;
    }
    System.out.println ("factorial of " + " number +"
                        " is " + fact);
    }
}
```

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output :

factorial of 5 is 120

4] program to print half pyramid using *.

→

```
public class main {

    public static void main(String[] args) {
        int rows = 5;

        for (int i = 1; i <= rows; ++i) {
            for(int J = 1; J <= i; ++J) {
                System.out.println("* ");
            }
            System.out.println();
        }
    }
}
```

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output :

*
* *
* * *
* * * *
* * * * *

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5] program to print half parymid using numbers:

→

```
pubiic class main {

    pubic Static void main (string [] args) {
        int rows = 5;

    for (int i=1; i<=rows; ++i) {
        for(int J=1; J<=i ; ++J) {
            System.out.println();
        }
    }
}
```

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output:

```
1
1 2
1 2 3 4
1 2 3 4
1 2 3 4 5
```

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6] Java program to generate multiplication table:

→

```
public class multipactionTable {

    public static void main (String [] args ) {
        int num =5;
        for (int i=1; i<=10 ; ++i)
        {
            System.out.println ("%d * %d = %d \n",
                                num, i, num * i);
        }
    }
}
```

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Output:

```
5 * 1 = 5
5 * 2 = 10
5 * 3 = 15
5 * 4 = 20
5 * 5 = 25
5 * 6 = 30
5 * 7 = 35
5 * 8 = 40
5 * 9 = 45
5 * 10 = 50
```

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7] Program to get current date and time

→

```
import java.time.LocalDateTime;

public class CurrentDateTime {

    public static void main(String[] args) {
        LocalDateTime current = LocalDateTime.now();

        System.out.println("current Date and time:"
                + current);
    }
}
```

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output:

current Date and time is : 2022-10-03T11:45:00

8] Java program to reverse a number:

→

```
class main()
    ~~public~~
    public static void main (String[], args)
    {
        int num = 1234, reversed=0;
        System.out.println("original number:" +
                num);
```

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```
while (num!=0) {
    int digit = num%10;
    reversed = reversed * 10 + digit
    num/= 10;
}
System.out.println("Reversed number : "+
                    reversed);
```

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output :

Reversed number : 4321

---

9. Program to find avarage of number using array

→

```
pubic ~~stev~~ class JavaExample {
    public static void main(String [] args)
    {
        double [] arr = {19, 12.89, 16.5, 200, 13.7};

        for(int i=0; i<arr.length; i++)
        {
            total = total + arr[i];
        }
```

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```
        double avarage = total / arr.length;

        System.out.format("the avarage : %.3f ",
                          avarage);
    }
}
```

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