JAVA Basic PROGRAMS

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1]. FIBBONACCI SERIES IN JAVA :

```
Class fibonacciExample {
Public static void main (string args[])
{
  int n1 = 0 , n2 = 1 , n3 , i , count = 10;
  System.out.Print( n1 + "   "+n2 );
  for(i=0; i< count; ++i)
{ n3 = n1 + n2
  system.out.print("   "+n3 );
   n1 = n2;
   n2 = n3;
    }
   }
}
```

Output:

0 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;
  if ( n == 0 || n == 1 ) {
  system.out.println ( n+" is not prime num");
}
```

SWIPE

```
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 factorialExample {
Public static void main(string args[]){
int i , fact = 1;
int(i=1 ; i<=number; i++) {
fact = fact * i ;
}
   System.out.println("factorial of +"number+"
                      "is" + fact);
    }
}
```

Output:-

Factorial of 5 is 120.

4]. **PROGRAM OF PRINT HAIF 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<=1; ++J) {
system.out.println(" X ");
}
system.out.println( );
}
}
}
```

Output:-

```
★
★ ★
★ ★ ★
★ ★ ★ ★
★ ★ ★ ★ ★
```


5]. **PROGRAM TO PRINT HAIF PYRAMID USING NUMBERS :**

```
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( );
}
}
}
```

SWIPE

Output:-

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


6]. **JAVA PROGRAM TO GENERATE MULTIPLICATION TABLE:**

```
Public class multiplication Table {
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 );
  }
 }
}
```

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
```

7]. **PROGRAM TO GET CURRENT DATE & TIME :**

```
import java.time.LocalDateTime;
Public class currentDateTime {
Public static void main (string [] args) {
LocalDateTime current = LocalDateTime.now();
system.out.println("current Date & Time : "
                    + current );
    }
}
```

Output :-

Current Date & Time is : 2023-01-01 12:00:00

8]. **JAVA PROGRAM TO REVERSE A NUMBER:**

```
Class main( )
Public static void main (string [], args )
{
int num = 1 2 3 4, reversed = 0;
system.out.println("Original number;" +num);
While (num != 0 ) {
int digit = num % 10;
reversed = reversed * 10 + digit
num1 = 10;
}
System.out.Println("Reversed number: " +
                    reversed);
}
```

Output :-

Reversed number : 4 3 2 1

9]. **PROGRAM TO FIND AVERAGE OF NUMBER USING ARRAY:**

```
Public 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 ]
}
  double average = total / arr.length;
  system.out.format ("the average : % 3F",
                     average);
  }
}
```