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Java Certification ›

Main.java

Run

```java
import java.util.Scanner;

public class Main {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.println("Enter a word:");
        String word = scanner.nextLine();
        String reversedWord = "";
        for (int i = word.length() - 1; i >= 0; i--) {
            reversedWord += word.charAt(i);
        }
        System.out.println("Reversed word: " + reversedWord);
    }
}
```

Output

Clear

```
java -cp /tmp/x9tuYswDh9 Main
Enter a word:
temple
Reversed word: elpmet
```


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Java Certification ›

Main.java

Run

```
1  import java.util.Scanner;
2  public class GCDandLCM
3  {
4      public static void main(String[] args)
5      {
6          Scanner scanner = new Scanner(System.in);
7          System.out.print("Enter first number: ");
8          int num1= scanner.nextInt();
9          System.out.print("enter a second number:");
10         int num2= scanner.nextInt();
11         int gcd= Math.gcd(num1,num2);
12         int lcm=(num1*num2)/gcd;
13         System.out.printf("LCM of %d and %d is %d",num1,num2,lcm);
14         System.out.printf("GCD of %d and %d is %d",num1,num2,gcd);
15     }
16 }
```

Output

Clear

```
ERROR!
javac /tmp/x9tuYswDh9/GCDandLCM.java
/tmp/x9tuYswDh9/GCDandLCM.java:11: error: cannot find symbol
        int gcd= Math.gcd(num1,num2);
                      ^
  symbol:   method gcd(int,int)
  location: class Math
1 error
```


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Java Certification ›

Main.java

Run

Output

Clear

```
1  import java.util.Scanner;
2  public class Factorial {
3      public static void main(String[] args)
4      {
5          Scanner scanner = new Scanner(System.in);
6          System.out.print("Enter a number: ");
7          int number = scanner.nextInt();
8          long factorial = iterativeFactorial(number);
9          System.out.println("Factorial of " + number + " is: " +
               factorial);
10     }
11     private static long iterativeFactorial(int number)
12     {
13         long result = 1;
14         for (int i = 2; i <= number; i++)
15         {
16             result *= i;
17         }
18         return result;
19     }
```

```
java -cp /tmp/x9tuYswDh9 Factorial
Enter a number: 5
Factorial of 5 is: 120
```


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Main.java

Run

```java
import java.util.Scanner;
public class HollowSquarePattern
{
    public static void main(String[] args)
    {
        int size = 4;
        for (int row = 1; row <= size; row++) {
            for (int col = 1; col <= size; col++) {
                if (row == 1 || row == size || col == 1 || col == size
                    ) {
                    System.out.print(" *");
                } else {
                    System.out.print("  ");
                }
            }
            System.out.println();
        }
    }
}
```

Output

Clear

```
java -cp /tmp/x9tuYswDh9 HollowSquarePattern
 * * * *
*     *
*     *
* * * *
```


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Java Certification ›

Main.java

Run

```java
import java.util.Scanner;
public class FibonacciSeries
{
    public static void main(String[] args)
    {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter the number of terms: ");
        int numTerms = scanner.nextInt();
        recursiveFibonacci(numTerms, 0, 1);
    }
    private static void recursiveFibonacci(int numTerms, int n1, int
        n2)
    {
        if (numTerms > 0) {
            System.out.print(n1 + " ");
            recursiveFibonacci(numTerms - 1, n2, n1 + n2);
        }
    }
}
```

Output

Clear

```
java -cp /tmp/x9tuYswDh9 FibonacciSeries
Enter the number of terms: 5
0 1 1 2 3
```


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Java Certification ›

Main.java

Run

```java
import java.util.Scanner;
public class MultiplicationTable
{
    public static void main(String[] args)
    {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter the first number (m): ");
        int m = scanner.nextInt();
        System.out.print("Enter the second number (n): ");
        int n = scanner.nextInt();
        for (int i = 1; i <= n; i++)
        {
            System.out.println(m + " x " + i + " = " + (m * i));
        }
    }
}
```

Output

Clear

```
java -cp /tmp/x9tuYswDh9 MultiplicationTable
Enter the first number (m): 5
Enter the second number (n): 10
5 x 1 = 5
5 x 2 = 10
5 x 3 = 15
5 x 4 = 20
5 x 5 = 25
5 x 6 = 30
5 x 7 = 35
5 x 8 = 40
5 x 9 = 45
5 x 10 = 50
```


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Main.java

Run

```java
import java.util.Scanner;
public class Factorial {
    public static void main(String[] args)
    {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter a number: ");
        int number = scanner.nextInt();
        long factorial = recursiveFactorial(number);
        System.out.println("Factorial of " + number + " is: " +
            factorial);
    }
    private static long recursiveFactorial(int number)
    {
        if (number == 0 || number == 1) {
            return 1;
        }
        return number * recursiveFactorial(number - 1);
    }
}
```

Output

Clear

```
java -cp /tmp/x9tuYswDh9 Factorial
Enter a number: 6
Factorial of 6 is: 720
```


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Java Certification ›

Main.java | Run

```java
import java.util.Scanner;
public class ReverseAndAdd {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter a number: ");
        int num = scanner.nextInt();
        int reversedNum = reverse(num);
        int sum = num + reversedNum;
        while (!isPalindrome(sum)) {
            reversedNum = reverse(sum);
            sum += reversedNum;
        }
        System.out.println("The smallest palindrome obtained by
            reversing and adding the number is: " + sum);
    }
    private static int reverse(int num) {
        int reversed = 0;
        while (num != 0) {
            int digit = num % 10;
            reversed = reversed * 10 + digit;
```

Output | Clear

```
java -cp /tmp/x9tuYswDh9 ReverseAndAdd
Enter a number: 7325
The smallest palindrome obtained by reversing and adding the number is:
    497794
```


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