

```
Armstrong.java ×
1 package com.assignmentAds.org;
2
3 public class Armstrong {
4     public static boolean check(int n ) {
5         int m=n;
6         int temp=0;
7         if(temp==m) {
8             return true;
9         }
10        int i =n%10;
11        int p=i*i*i;
12        temp=temp+p;
13        check(n/10);
14        System.out.println(n+"i: "+i+"p: "+p+"temp: "+temp);
15        return false;
16    }
17    public static void main(String[] args) {
18        System.out.println(Armstrong.check(343));
19    }
20 }
21
```

Console ×

```
<terminated> Armstrong [Java Application] C:\Users\LENOVO\Downloads\eclipse-jee-2023-12-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdkh
3i: 3p: 27temp: 27
34i: 4p: 64temp: 64
343i: 3p: 27temp: 27
false
|
```

```
automorphicNo.java ×
1 package com.assignmentAds.org;
2
3 import java.util.Scanner;
4
5 public class automorphicNo {
6     static boolean isAutomorphic(int n, int or , int sq) {
7         if (n==sq%10) {
8             return true;
9         }if (sq==0) {
10             return false;
11         }return isAutomorphic(n, or, sq/10);
12     }
13     public static void main(String[] args) {
14         Scanner sc = new Scanner(System.in);
15         int num=sc.nextInt();
16         int sq= num*num;
17
18         boolean res= isAutomorphic(num, num, sq);
19
20         if (res) {
21             System.out.println(num +"is an automorphic No:");
22         }else {
23             System.out.println(num +"is not an automorphic No:");
24         }
25     }
26 }
27
28 }
29
```

Console ×

<terminated> automorphicNo [Java Application] C:\Users\LENOVO\Downloads\eclipse-jee-2023-12-R-win32-x86_64\eclipse\plugin

5

5is an automorphic No:

```
GCD.java ×
1 package com.assignmentAds.org;
2
3 import java.util.Scanner;
4
5 public class GCD {
6     static int findGcd(int num1, int num2) {
7         if(num2==0) {
8             return num1;
9         } return findGcd(num2,num1%num2);
10    }
11    public static void main(String[] args) {
12        Scanner sc = new Scanner(System.in);
13        System.out.println("Enter num1:");
14        int num1 = sc.nextInt();
15        System.out.println("Enter num2 :");
16        int num2=sc.nextInt();
17
18        int gcd=findGcd(num1, num2);
19        System.out.println("GCD of "+num1 +" and "+num2 +"is :"+gcd);
20    }
21
22 }
23
```

```
Console ×
<terminated> GCD [Java Application] C:\Users\LENOVO\Downloads\eclipse-jee-2023-12-R-win32-x86_64\eclipse\plugins\org.eclipse.jus
Enter num1:
5
Enter num2 :
4
GCD of 5 and 4is :1
```

```
palindrome.java ×
1 package com.assignmentAds.org;
2
3 import java.util.Scanner;
4
5 public class palindrome {
6     static int rev(int num ,int revNum){
7         if(num==0){
8             return revNum;
9         }
10        int digit =num%10;
11        revNum=revNum*10+digit;
12        return rev(num/10,revNum);
13    }
14    public static void main(String[] args) {
15        Scanner sc = new Scanner(System.in);
16        System.out.println("Enter NO:");
17        int n= sc.nextInt();
18        if(n==rev(n,0)){
19            System.out.println("Number is palindrome");
20        }else
21            System.out.println("Number is not palindrome");
22    }
23 }
24
25
```

Console ×

<terminated> palindrome [Java Application] C:\Users\LENOVO\Downloads\eclipse-jee-2023-12-R-win32-x86_64\eclipse\plugin

Enter NO:

112211

Number is palindrome

```
primeFactor.java ×
1 package com.assignmentAds.org;
2
3 import java.util.Scanner;
4
5 public class primeFactor {
6     static void printPrimeFactors(int num, int div) {
7         if (num <=1) {
8             return;
9         }
10        if (num%div==0) {
11            System.out.print(div+" ");
12            printPrimeFactors(num/div,div);
13        }else
14            printPrimeFactors(num, div+1);
15    }
16    public static void main(String[] args) {
17        Scanner sc = new Scanner(System.in);
18        System.out.println("Enter No:");
19        int num=sc.nextInt();
20        sc.close();
21
22
23        System.out.println("Prime factors are:");
24        printPrimeFactors(num,2);
25
26    }
27 }
28
29
```

```
Console ×
<terminated> primeFactor [Java Application] C:\Users\LENOVO\Downloads\eclipse-jee-2023-12-R-win32-x86_64\cli
Enter No:
78
Prime factors are:
2 3 13
```

```
primeNumber.java ×
1 package com.assignmentAds.org;
2
3 import java.util.Scanner;
4
5 public class primeNumber {
6     static boolean isPrime(int num, int div) {
7         if (num<=1) {
8             return false;
9         }if (div==1) {
10             return true;
11         }if (num%div==0) {
12             return false;
13         }return isPrime(num, div-1);
14     }
15     public static void main(String[] args) {
16         Scanner sc = new Scanner(System.in);
17         System.out.println("Enter a num: ");
18         int num2=sc.nextInt();
19
20         if(isPrime(num2, num2/2)) {
21             System.out.println(num2+" is a prime number.");
22         }else {
23             System.out.println(num2+" is not a prime number.");
24         }
25     }
26 }
27
28
```

Console ×

<terminated> primeNumber [Java Application] C:\Users\LENOVO\Downloads\eclipse-jee-2023-12-R-win32-x86_64\eclipse\plug
ers\LENOVO\Downloads\eclipse-jee-2023-12-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86
61 is a prime number.

LCM.java ×

```
1 package com.assignmentAds.org;
2
3 import java.util.Scanner;
4
5 public class LCM {
6     static int findLcm(int num1, int num2){
7         return (num1*num2)/findGcd(num1,num2);
8     }static int findGcd(int num1, int num2) {
9         if(num2==0) {
10             return num1;
11         }return findGcd(num2,num1%num2);
12     }
13     public static void main(String[] args) {
14         Scanner sc = new Scanner(System.in);
15         System.out.println("Enter num1:");
16         int num1=sc.nextInt();
17         System.out.println("Enter num2:");
18         int num2=sc.nextInt();
19         sc.close();
20
21         int lcm =findLcm(num1, num2);
22         System.out.println("LCM of "+num1 +"and "+num2 +" is:"+lcm);
23     }
24 }
25
26
```

Console ×

```
<terminated> LCM [Java Application] C:\Users\LENOVO\Downloads\eclipse-jee-2023-12-R-win32-x86_64\eclipse\plug
Enter num1:
45
Enter num2:
65
LCM of 45and 65 is:585
```