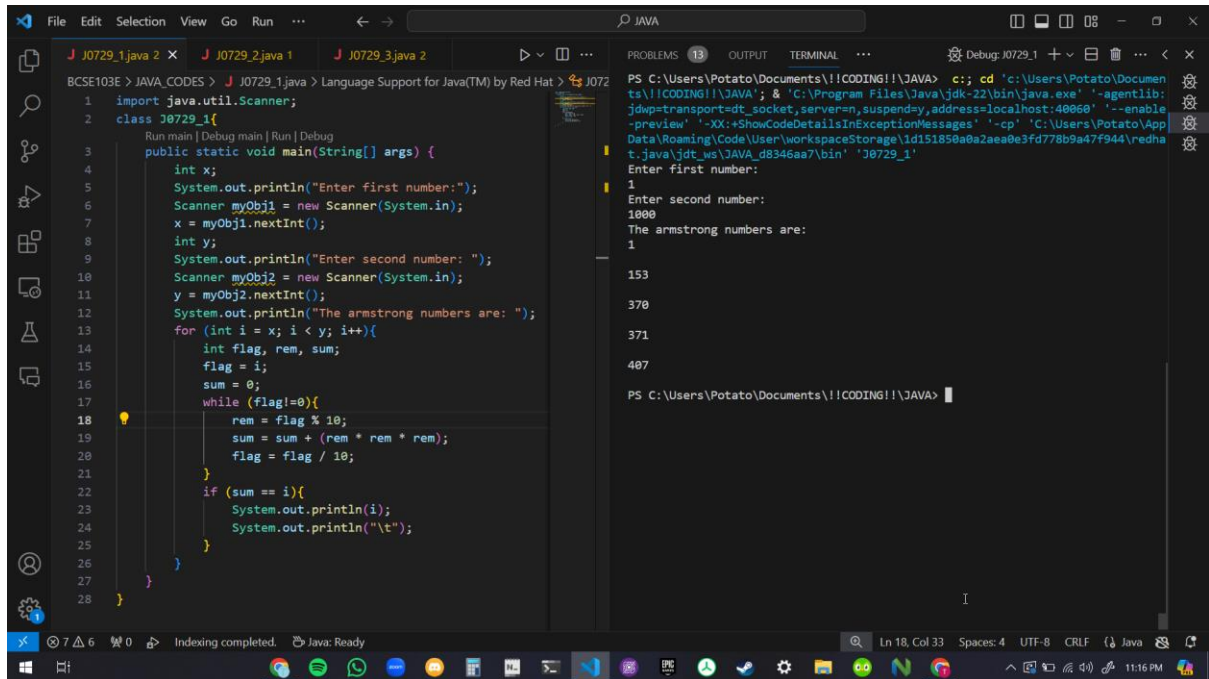


BCSE103E ASSIGNMENT 2

EXERCISES ON 29-07-24

<https://github.com/TejasKumar0936/BCSE103E-ASSIGNMENT-2-SUBMISSION/tree/main>

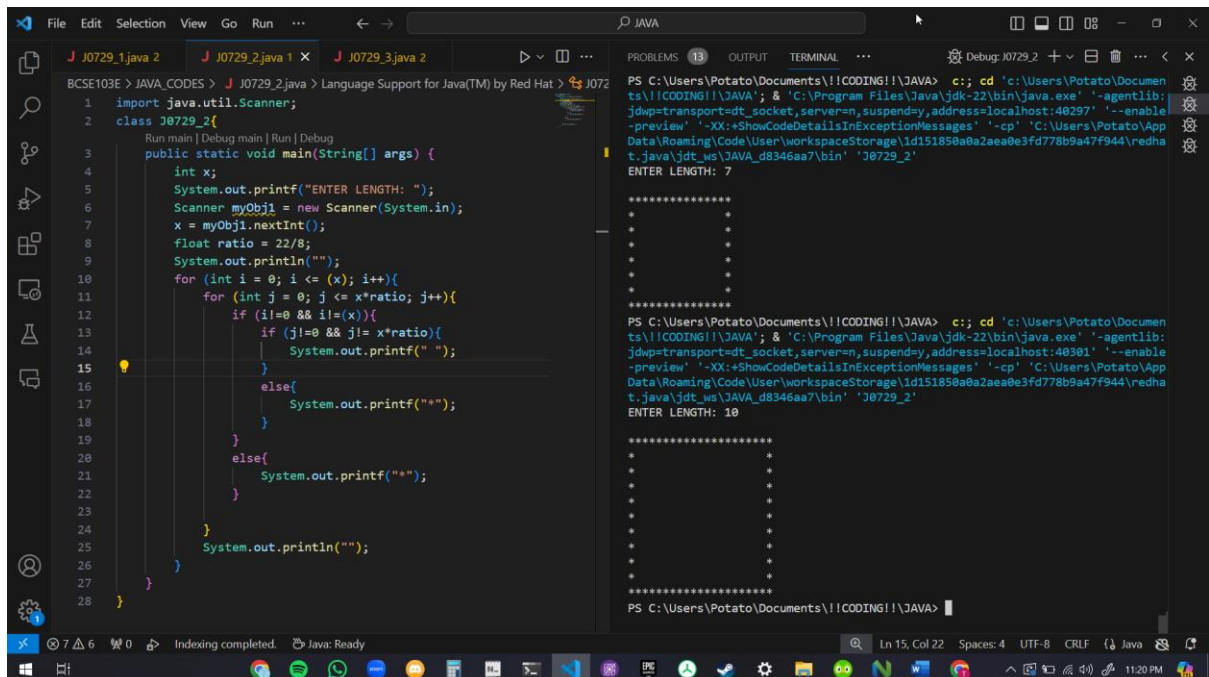
1. Java Program to Check Armstrong Number between Two Integers



```
BCSE103E > JAVA_CODES > J J0729_1.java > Language Support for Java(TM) by Red Hat > J0729_1.java
1 import java.util.Scanner;
2 class J0729_1{
3     public static void main(String[] args) {
4         int x;
5         System.out.println("Enter first number:");
6         Scanner myObj1 = new Scanner(System.in);
7         x = myObj1.nextInt();
8         int y;
9         System.out.println("Enter second number:");
10        Scanner myObj2 = new Scanner(System.in);
11        y = myObj2.nextInt();
12        System.out.println("The armstrong numbers are:");
13        for (int i = x; i < y; i++){
14            int flag, rem, sum;
15            flag = i;
16            sum = 0;
17            while (flag!=0){
18                rem = flag % 10;
19                sum = sum + (rem * rem * rem);
20                flag = flag / 10;
21            }
22            if (sum == i){
23                System.out.println(i);
24                System.out.println("\t");
25            }
26        }
27    }
28 }
```

```
PS C:\Users\Potato\Documents\!!CODING!!\JAVA> c;; cd 'c:\Users\Potato\Documents\!!CODING!!\JAVA'; & 'C:\Program Files\Java\jdk-22\bin\java.exe' '-agentlib:jdwp=transport=dt_socket,server=n,suspend=y,address=localhost:40060' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Potato\AppData\Roaming\Code\User\workspaceStorage\1d151858a0a2aea0e3fd778b9a47f944\redhat.java\jdt_ws\JAVA_d8346aa7\bin' 'J0729_1'
Enter first number:
1
Enter second number:
1000
The armstrong numbers are:
1
153
370
371
407
PS C:\Users\Potato\Documents\!!CODING!!\JAVA>
```

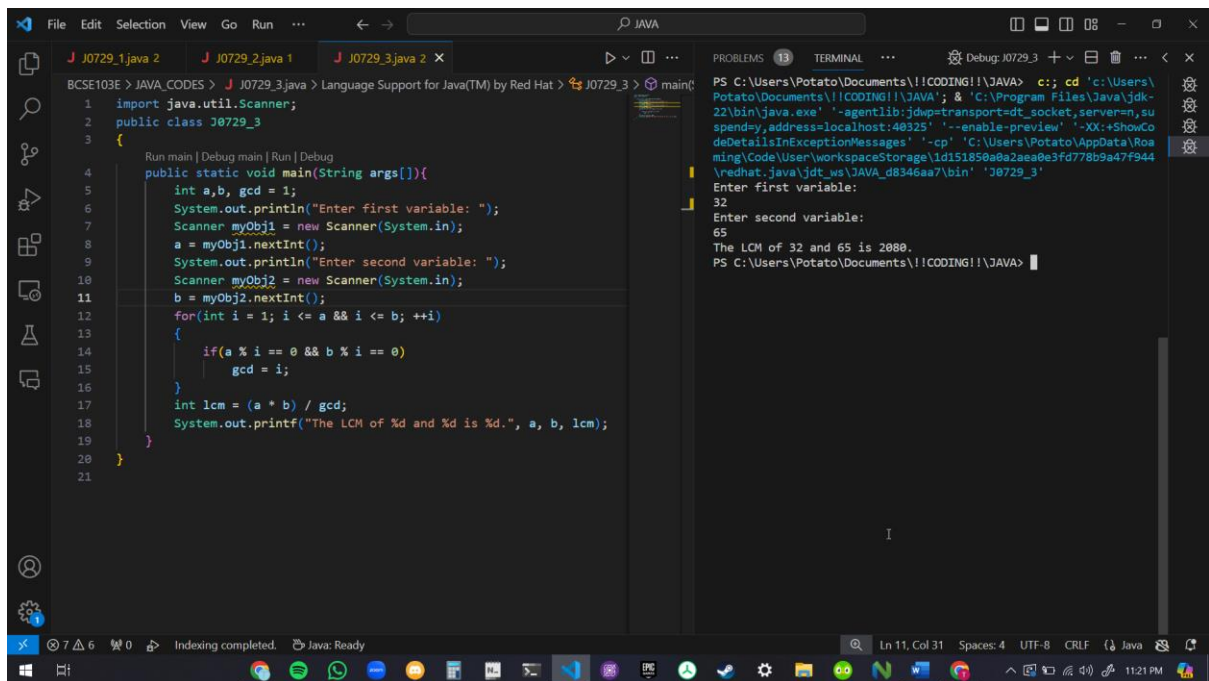
2. Java Program to Print Square Star Pattern



```
BCSE103E > JAVA_CODES > J J0729_2.java > Language Support for Java(TM) by Red Hat > J0729_2.java
1 import java.util.Scanner;
2 class J0729_2{
3     public static void main(String[] args) {
4         int x;
5         System.out.printf("ENTER LENGTH: ");
6         Scanner myObj1 = new Scanner(System.in);
7         x = myObj1.nextInt();
8         float ratio = 22/8;
9         System.out.println("");
10        for (int i = 0; i <= (x); i++){
11            for (int j = 0; j <= x*ratio; j++){
12                if (i!=0 && i!=(x)){
13                    if (j!=0 && j!= x*ratio){
14                        System.out.printf(" ");
15                    }
16                    else{
17                        System.out.printf("*");
18                    }
19                }
20                else{
21                    System.out.printf(" ");
22                }
23            }
24            System.out.println("");
25        }
26    }
27 }
28 }
```

```
PS C:\Users\Potato\Documents\!!CODING!!\JAVA> c;; cd 'c:\Users\Potato\Documents\!!CODING!!\JAVA'; & 'C:\Program Files\Java\jdk-22\bin\java.exe' '-agentlib:jdwp=transport=dt_socket,server=n,suspend=y,address=localhost:40297' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Potato\AppData\Roaming\Code\User\workspaceStorage\1d151858a0a2aea0e3fd778b9a47f944\redhat.java\jdt_ws\JAVA_d8346aa7\bin' 'J0729_2'
ENTER LENGTH: 7
*****
*      *
*      *
*      *
*      *
*      *
*****
PS C:\Users\Potato\Documents\!!CODING!!\JAVA> c;; cd 'c:\Users\Potato\Documents\!!CODING!!\JAVA'; & 'C:\Program Files\Java\jdk-22\bin\java.exe' '-agentlib:jdwp=transport=dt_socket,server=n,suspend=y,address=localhost:40301' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Potato\AppData\Roaming\Code\User\workspaceStorage\1d151858a0a2aea0e3fd778b9a47f944\redhat.java\jdt_ws\JAVA_d8346aa7\bin' 'J0729_2'
ENTER LENGTH: 10
*****
*      *
*      *
*      *
*      *
*      *
*      *
*      *
*      *
*      *
*****
PS C:\Users\Potato\Documents\!!CODING!!\JAVA>
```

3. Java Program to Find LCM of Two Numbers



```
1 import java.util.Scanner;
2 public class J0729_3
3 {
4     public static void main(String args[]){
5         int a,b, gcd = 1;
6         System.out.println("Enter first variable: ");
7         Scanner myObj1 = new Scanner(System.in);
8         a = myObj1.nextInt();
9         System.out.println("Enter second variable: ");
10        Scanner myObj2 = new Scanner(System.in);
11        b = myObj2.nextInt();
12        for(int i = 1; i <= a && i <= b; ++i)
13        {
14            if(a % i == 0 && b % i == 0)
15                gcd = i;
16        }
17        int lcm = (a * b) / gcd;
18        System.out.printf("The LCM of %d and %d is %d.", a, b, lcm);
19    }
20 }
21
```

PS C:\Users\Potato\Documents\!!CODING!!\JAVA> c:: cd 'c:\Users\Potato\Documents\!!CODING!!\JAVA'; & 'C:\Program Files\Java\jdk-22\bin\java.exe' '-agentlib:jdwp=transport=dt_socket,server=n,suspend=y,address=localhost:48525' '-enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Potato\AppData\Roaming\Code\User\workspaceStorage\1d51850a8a2ae0e3fd778b9a47f944\redhat.java\jdt_ws\JAVA_d8346aa7\bin' 'J0729_3'

Enter first variable:
32
Enter second variable:
65
The LCM of 32 and 65 is 2080.
PS C:\Users\Potato\Documents\!!CODING!!\JAVA>