

```

import java.util.*;
class operations {
    int num1,num2;
    operations(int a,int b)
    {
        Scanner sc=new Scanner(System.in);
        num1=a;
        num2=b;

        System.out.println("The Addition is:"+(num1+num2));
        System.out.println("The Subtraction is:"+(num1-num2));
        System.out.println("The Multiplication is:"+(num1*num2));
        System.out.println("The Division is:"+(num1/num2));
        System.out.println("The Modulus is:"+(num1%num2));
    }
}
class prime{
    int i,j,count=0;
    prime(){
        System.out.println(" prime number between 1 to 100:");
        for(i=2;i<=100;i++)
        {
            for(j=1;j<=i;j++)
            {
                if(i%j==0)
                    count++;
            }
            if(count==2)
                System.out.println(" "+i );
            count=0;
        }
    }
}
class armstrong{
    int a,z=0,r,o;
    armstrong(int a){
        o=a;
        while(o!=0)
        {
            r=o%10;
            z=z+(r*r*r);
            o=o/10;
        }
        if(z==a)
            System.out.println ( a + " is a armstrong number");
        else
            System.out.println ( a + " is not a armstrong number");
    }
}
public class constructor
{
    public static void main(String args[])
    {
        operations o=new operations(40,20);
    }
}

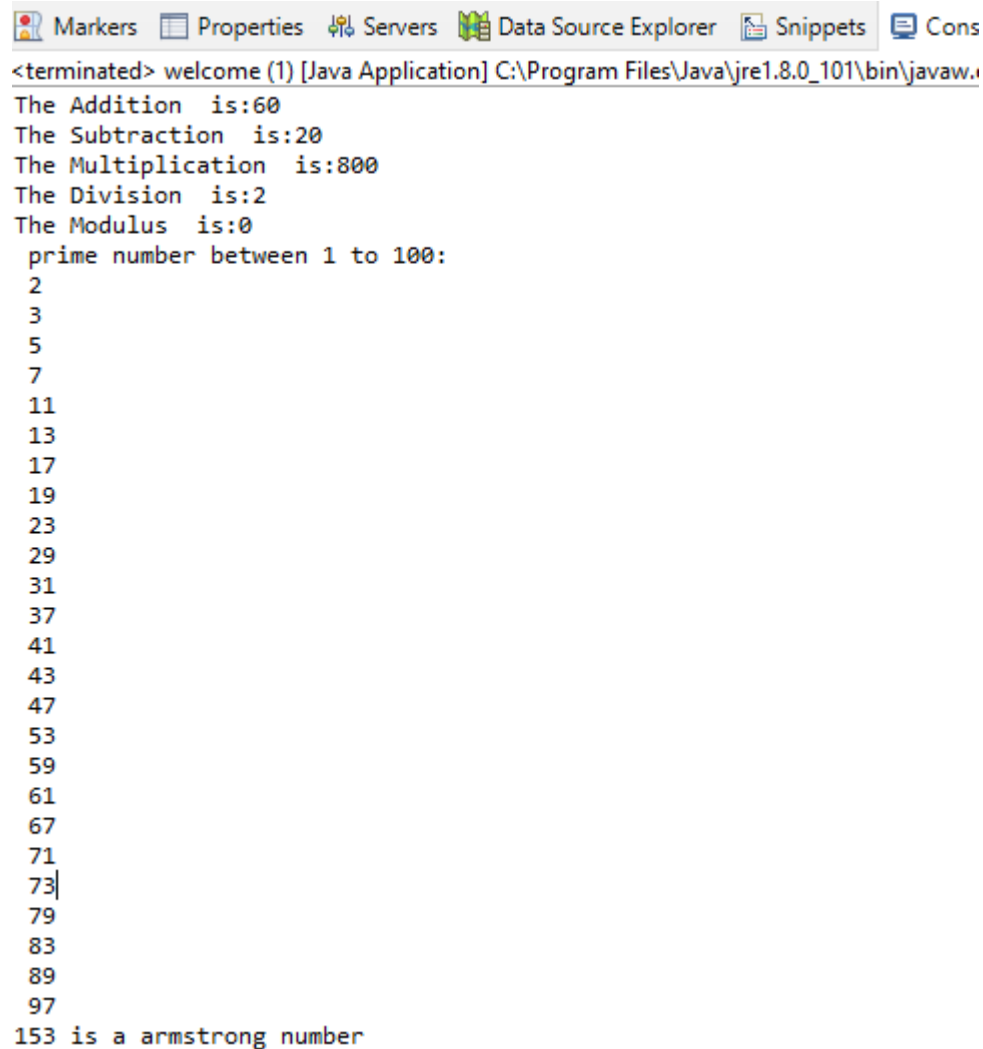
```

```

        prime p=new prime( );
        armstrong a=new armstrong( 153);
    }
}

```

Output:



The screenshot shows a Java IDE window with the following tabs: Markers, Properties, Servers, Data Source Explorer, Snippets, and Console. The Console window displays the output of a Java application. The output starts with a welcome message, followed by arithmetic calculations, a list of prime numbers between 1 and 100, and a check for an Armstrong number.

```

<terminated> welcome (1) [Java Application] C:\Program Files\Java\jre1.8.0_101\bin\javaw.exe
The Addition is:60
The Subtraction is:20
The Multiplication is:800
The Division is:2
The Modulus is:0
prime number between 1 to 100:
2
3
5
7
11
13
17
19
23
29
31
37
41
43
47
53
59
61
67
71
73
79
83
89
97
153 is a armstrong number

```