3.Write a program to initialize a single dimensional array of 8 integers. Print array elements along with the indexes of each element and square of each element in three columns.

```
package arrays;
import java.util.Scanner;
public class squareofarr {

	public static void main(String[] args)
	{
		Scanner s=new Scanner(System.in);
		int []elements= {1,2,3,4,5,6,7,8};
		System.out.println("Enter the number");
		 //index
		int index=0;
		 for(int i=0;i<elements.length;i++) {
		  int n=s.nextInt();
		  int sqre=0;
	    if(elements[i]==n)
			{
			 index = i;
			  sqre=elements[i]*elements[i];
		   }
			 System.out.println("Index of element:"+index);
			 System.out.println("Square of element:"+sqre);
		 }


    }
}
```

output:
Enter the number
1
Index of element:0
Square of element:1
2
Index of element:1
Square of element:4
3
Index of element:2
Square of element:9
4
Index of element:3
Square of element:16
5
Index of element:4
Square of element:25
6
Index of element:5
Square of element:36
7
Index of element:6
Square of element:49
8
Index of element:7
Square of element:64

online reffered program :

```
package arrays;
public class onlinepforsqure {
 public static void main(String[] args) {

        int[] num = {5, 8, 12, 3, 7, 10, 6, 15};
        System.out.println("Element Index  Square");
        for (int i = 0; i <num.length; i++) {
            int element = num[i];
            int square = element * element;
            System.out.println( element+ "\t" + i + "\t" + square);
        }
    }
}
```

output :

Element	Index	Square
5	0	25
8	1	64
12	2	144
3	3	9
7	4	49
10	5	100
6	6	36
15	7	225