

3. Write a program to create a single dimensional array of 20 integers. Print array element in a single line with one space between each element. Also print sum of elements present at even indexes and sum of elements present at odd indexes in array in java.

```
package arrays;
import java.util.Scanner;
public class evenindexodd {
    public static void main(String[] args) {
        Scanner s=new Scanner(System.in);
        int[] num = new int[20];
        int evenS = 0;
        int oddS = 0;
        System.out.print("Enter required Array elements: ");
        int elements=s.nextInt();
        for (int i = 0; i < elements; i++) {
            num[i] = i + 1;
        }
        for (int j = 0; j < num.length; j++) {
            System.out.print(num[j] + " ");
            if (j % 2 == 0) {
                evenS += num[j];
            } else {
                oddS += num[j];
            }
        }
        System.out.println();
        System.out.println("Sum of elements at even indexes: " + evenS);
        System.out.println("Sum of elements at odd indexes: " + oddS);
    }
}
```

output :

Enter required Array elements: 20

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Sum of elements at even indexes: 100

Sum of elements at odd indexes: 110