

Q1. Write a java program to initialize 1d Array in java without using index and print it on the screen?

Length properties: if we want to know size of the array in java then we should use length properties

Syntax:

arrayName.length

```
class A1{
    public static void main(String args[]){
        int arr[]={10,20,30,40,50,60};

        System.out.println("Length of the Array
"+arr.length);

        System.out.println(arr[arr.length-2]);

        System.out.println("Array Element at index 0
: "+arr[0]);

        System.out.println("Array Element at index 1
: "+arr[1]);
```

```
    System.out.println("Array Element at index 2  
: "+arr[2]);
```

```
    System.out.println("Array Element at index 3  
: "+arr[3]);
```

```
    System.out.println("Array Element at index 4  
: "+arr[4]);
```

```
    System.out.println("Array Element at index 5  
: "+arr[5]);
```

```
    }
```

```
}
```

---

```
import java.util.Scanner;
```

```
class A1{
```

```
    public static void main(String args[]){
```

```
        int arr[]=new int[]{10,20,30,40,50,60};
```

```
        System.out.println("Length of the Array  
"+arr.length);
```

```
System.out.println(arr[arr.length-2]);
```

```
System.out.println("Array Element at index 0  
: "+arr[0]);
```

```
System.out.println("Array Element at index 1  
: "+arr[1]);
```

```
System.out.println("Array Element at index 2  
: "+arr[2]);
```

```
System.out.println("Array Element at index 3  
: "+arr[3]);
```

```
System.out.println("Array Element at index 4  
: "+arr[4]);
```

```
System.out.println("Array Element at index 5  
: "+arr[5]);
```

```
}
```

```
}
```

---

Q2. write a java program to take array elements from the user and print it on the screen

```
import java.util.Scanner;
class A1{
    public static void main(String args[]){
        int arr[]=new int[5];

        Scanner sk=new Scanner(System.in);

        System.out.println("Enter Element Index of 0
: ");
        arr[0]=sk.nextInt();
        System.out.println("Enter Element Index of 1
: ");
        arr[1]=sk.nextInt();
        System.out.println("Enter Element Index of 2
: ");
        arr[2]=sk.nextInt();
        System.out.println("Enter Element Index of 3
: ");
        arr[3]=sk.nextInt();
```

```
System.out.println("Enter Element Index of 4  
: ");  
arr[4]=sk.nextInt();
```

```
System.out.println("Length of the Array  
"+arr.length);
```

```
System.out.println("Array Element at index 0  
: "+arr[0]);
```

```
System.out.println("Array Element at index 1  
: "+arr[1]);
```

```
System.out.println("Array Element at index 2  
: "+arr[2]);
```

```
System.out.println("Array Element at index 3  
: "+arr[3]);
```

```
System.out.println("Array Element at index 4  
: "+arr[4]);
```

```
}
```

```
}
```

---

How to take input from the user

```
import java.util.Scanner;
```

```
class A1{
```

```
    public static void main(String args[]){
```

```
        int arr[]=new int[10];
```

```
        Scanner sk=new Scanner(System.in);
```

```
        int i;
```

```
        for(i=0;i<arr.length;i++){//i=0 ,1 ,2, 3, 4,
```

```
        System.out.println("Enter Element Index of  
"+i+" : ");
```

```
        arr[i]=sk.nextInt();
```

```
    }//input
```

```
        System.out.println("Length of the Array  
"+arr.length);
```

```
        System.out.println("Element of the Array : ");
```

```

        for(i=0;i<arr.length;i++){//0, 1 2 3 4
            System.out.println(i+" Index Element
"+arr[i]);
        }

    }
}

```

---

Q2. Write a java Program to print reverse of the array element?

Array element: 1 2 3 4 5

Reverse element: 5 4 3 2 1

```

import java.util.Scanner;
class A1{
    public static void main(String args[]){
        int arr[]=new int[5];

        Scanner sk=new Scanner(System.in);
        int i;
        for(i=0;i<arr.length;i++){//i=0 ,1 ,2, 3, 4,
            System.out.println("Enter Element Index of
"+i+" : ");
            arr[i]=sk.nextInt();
        }
    }
}

```

```
}//input
```

```
    System.out.println("Length of the Array  
"+arr.length);
```

```
    System.out.println("Reverse Element of the  
Array : ");
```

```
    for(i=0;i<arr.length;i++){//0, 1 2 3 4
```

```
        System.out.println(i+" Index Element  
"+arr[i]);
```

```
    }//output
```

```
}
```

```
}
```

---

Q2. Write a java program to print alternate array elements and element starts with 0 ?

```
import java.util.Scanner;
```

```
class A1{
```

```
    public static void main(String args[]){
```

```
        int arr[]=new int[5];
```



```
Scanner sk=new Scanner(System.in);
int i;
for(i=0;i<arr.length;i++){//i=0 ,1 ,2, 3, 4,
    System.out.println("Enter Element Index of
"+i+" : ");
    arr[i]=sk.nextInt();
} //input
```

```
    System.out.println("Length of the Array
"+arr.length);
```

```
    System.out.println("Reverse Element of the
Array : ");
```

```
    for(i=0;i<arr.length;i=i+2){//0, 1 2 3 4
        System.out.println(i+" Index Element
"+arr[i]);
    } //output
```

```
}
```

```
}
```

---

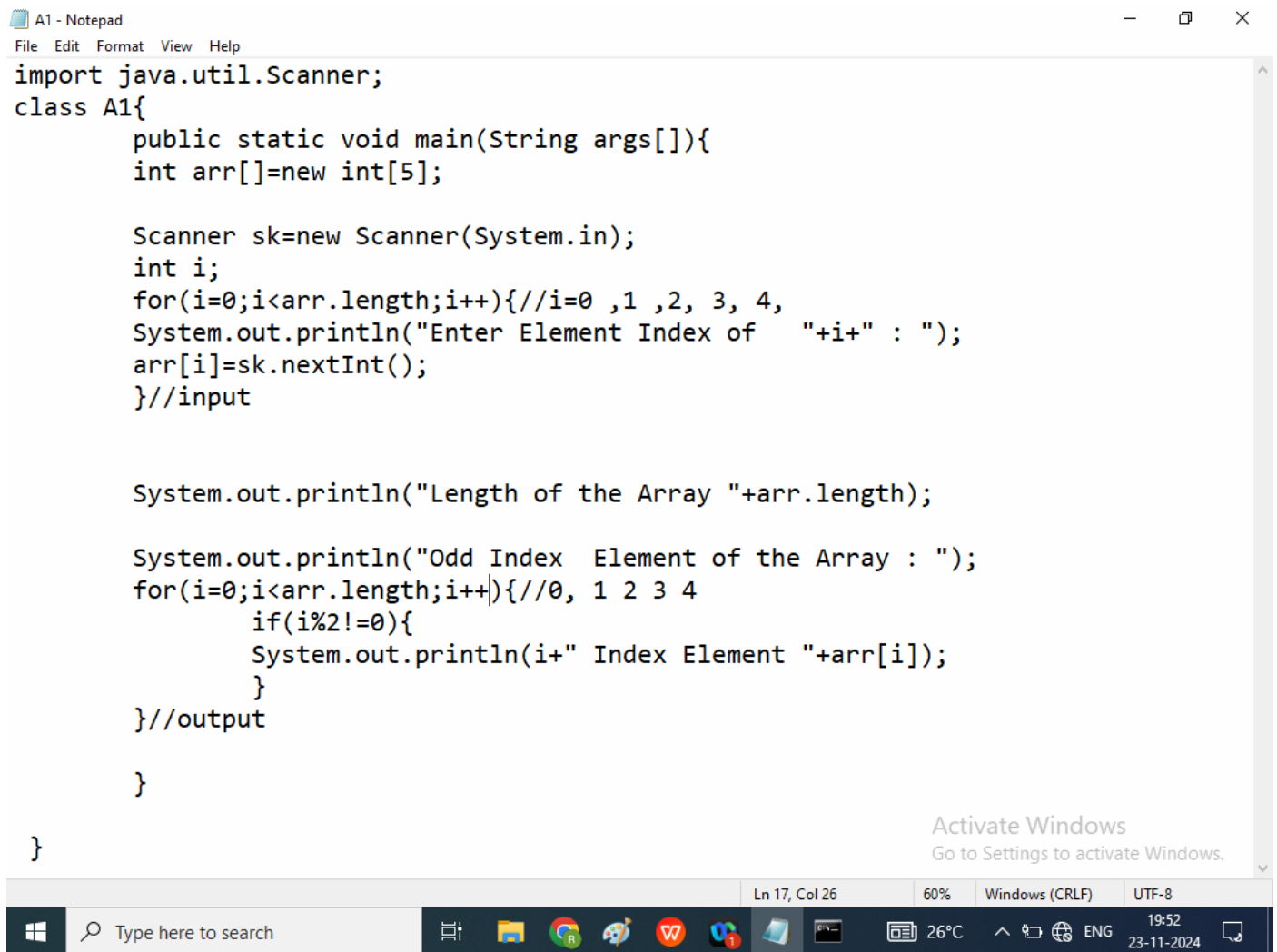
Q2. Write a java program to print odd index of element of the array

Array Element: 10 20 30 40 50

0 1 2 3 4

Odd Index Element Are:

20 30



```
A1 - Notepad
File Edit Format View Help
import java.util.Scanner;
class A1{
    public static void main(String args[]){
        int arr[]=new int[5];

        Scanner sk=new Scanner(System.in);
        int i;
        for(i=0;i<arr.length;i++){//i=0 ,1 ,2, 3, 4,
            System.out.println("Enter Element Index of  "+i+" : ");
            arr[i]=sk.nextInt();
        }//input

        System.out.println("Length of the Array "+arr.length);

        System.out.println("Odd Index  Element of the Array : ");
        for(i=0;i<arr.length;i++){//0, 1 2 3 4
            if(i%2!=0){
                System.out.println(i+" Index Element "+arr[i]);
            }
        }//output

    }
}
```

Activate Windows  
Go to Settings to activate Windows.

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Windows taskbar: 26°C, 19:52, 23-11-2024

Q3. Write a java program to print sum of all array elements?

Array Elements Are : 10 20 30 40 50

```
import java.util.Scanner;
```

```
class A1{
```

```
    public static void main(String args[]){
```

```
        int arr[]=new int[5];
```

```
        Scanner sk=new Scanner(System.in);
```

```
        int i;
```

```
        for(i=0;i<arr.length;i++){//i=0    ,1 ,2, 3, 4,
```

```
        System.out.println("Enter Element Index of  "+i+" : ");
```

```
        arr[i]=sk.nextInt();
```

```
    }//input
```

```
    System.out.println("Length of the Array "+arr.length);
```

```
    int sum=0;
```

```
    for(i=0;i<arr.length;i++){//0, 1 2 3 4
```

```
        sum=sum+arr[i];
```

```
        System.out.println(i+" Index Element "+arr[i]);
```

```
    }//output
```

```
    System.out.println("sum of all array elements :
```

```
    "+sum);
```

```
    System.out.println("Average of  array elements :
```

```
    "+sum/arr.length);
```

}

}

---