

1.Problem Statement

Declare an integer array of size 10. Initialize using for loop with 1 to 10, and print all even numbers from an array.

2.Source code

```
//Print all the even numbers from array.
```

```
package mypackage;
```

```
class Displayeven  
{
```

```
    //Declaring an array of numbers
```

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

```
    int j;
```

```
    //Constructor to initialize value
```

```
    Displayeven()
```

```
    {
```

```
        j=1;
```

```
    }
```

```
    //Method to initialize the list of numbers
```

```
    void initializeNumbers()
```

```
    {
```

```
        //Initialize array of numbers
```

```
        for(int i=0;i<10;i++)
```

```
        {
```

```
            numbers[i]=j++;
```

```
        }
```

```
        System.out.println("The List of Numbers in Array are :");
```

```
        System.out.println("*****");
```

```
        //loop to display the list of numbers to verify for even
```

```
        for (int i=0;i<10;i++)
```

```
            System.out.println(numbers[i]);
```

```
    }
```

```
    void printEven()
```

```
    {
```

```
        System.out.println("The Even Numbers are:");
```

```
        System.out.println("*****");
```

```
        for (int i=0;i<10;i++)
```

```
        {
```

```
            if(numbers[i]%2==0)
```

```
                System.out.println(numbers[i]);
```

```
        }
```

```
    }
```

```
}
```

```

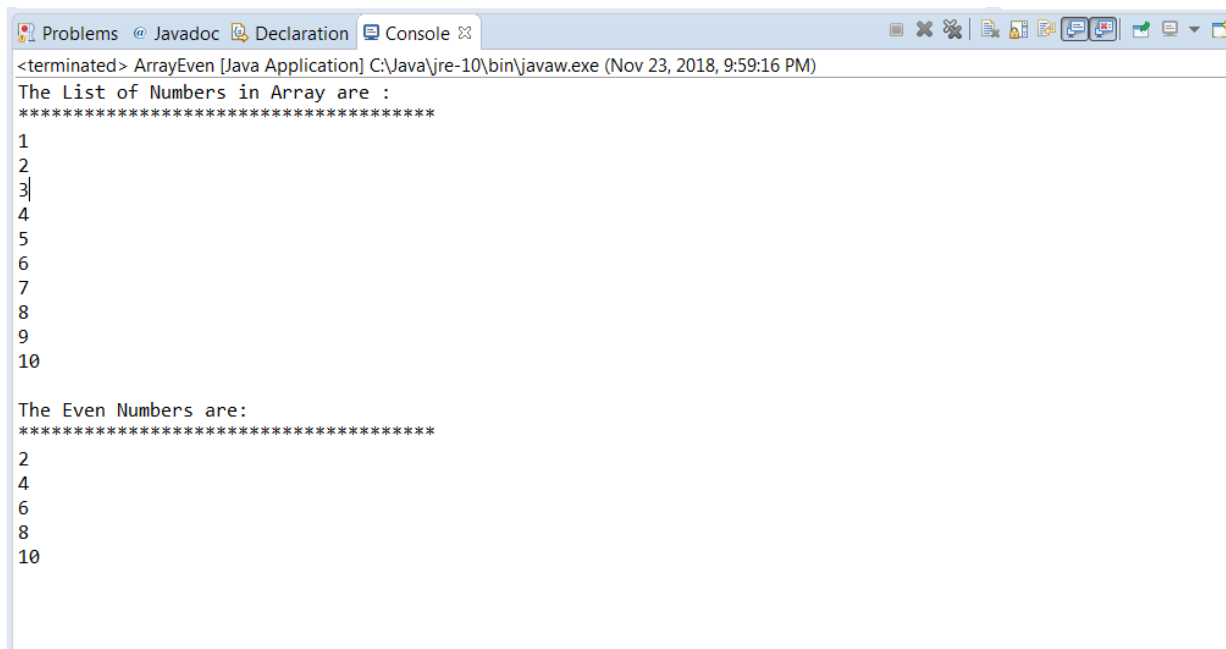
public class ArrayEven {

    //Declaration of main method
    public static void main(String[] args)
    {
        Displayeven obj=new Displayeven();
        obj.initializeNumbers();

        System.out.println();
        obj.printEven();
    }
} //End of program

```

3.Output:



```

<terminated> ArrayEven [Java Application] C:\Java\jre-10\bin\javaw.exe (Nov 23, 2018, 9:59:16 PM)
The List of Numbers in Array are :
*****
1
2
3
4
5
6
7
8
9
10
The Even Numbers are:
*****
2
4
6
8
10

```

4.Flow Information

The class Displayeven is defined with array to store the list of numbers and also declared with the two methods. The method initializeNumbers is used to assign the numbers from 1 to 10 in array using for loop and the method printEven verifies whether the numbers is even or not using for loop and then displays the even number. An object for class Displayeven, is created in the main method and initiates call to both of the above methods and the list of even numbers are displayed as output.