```
package Arraysexam;

import java.util.Arrays;

public class Printoddnumber {

public static void main(String[] args) {
int []a= {3,4,8,15,6,8};
System.out.println("before odd number arrys"+Arrays.toString(a));
int []result=oddNumber(a);
}
public static int[] oddNumber(int[] a) {
System.out.println("odd elements in the array are:");
for (int i = 0; i < a.length; i++) {
if (a[i] % 2 != 0) {
System.out.println(a[i]);
}
}
return a;

}

}

-------------------------------------------------
package Arraysexam;

import java.util.Arrays;
```

```
//import java.util.*;
public class MergesortArray {
//static Scanner sc=new Scanner (System.in);
public static void main(String[] args) {
int[] a = {10, 20, 30};
int[] b = {40, 50};

System.out.println("Array a: " + Arrays.toString(a));
System.out.println("Array b: " + Arrays.toString(b));

int[] res = Slove(a, b);
System.out.println("Merged Array: " + Arrays.toString(res));
}

// Merge method
public static int[] Slove(int[] a, int[] b) {
int[] c = new int[a.length + b.length]; // create result array

// Copy array a into c
for (int i = 0; i < a.length; i++) {
c[i] = a[i];
}

// Copy array b into c
for (int j = 0; j < b.length; j++) {
c[a.length + j] = b[j];
}

return c;
```

```
}
}

---------------------------
package Arraysexam;
import java.util.Scanner;



public class PrintOnlyEvenNumber {
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);

// Step 1: Ask user for size of the array
System.out.print("Enter the size of the array: ");
int size = sc.nextInt();

// Step 2: Declare the array
int[] a = new int[size];

// Step 3: Read elements from user //insertion
for (int i = 0; i < a.length; i++) {
System.out.print("Enter element at index [" + i + "]: ");
a[i] = sc.nextInt();
}

// Step 4: Print only even elements
System.out.println("Even elements in the array are:");
for (int i = 0; i < a.length; i++) {
```

```
if (a[i] % 2 == 0) {
System.out.println(a[i]);
}
}

sc.close(); // Always close the scanner
}
}

----------------------
package Arraysexam;

import java.util.Arrays;

public class PrinttheArraysandsumarray {

public static void main(String[] args) {
int []a= {10,20,30,40,50}; //static array method
System.out.println("a"+Arrays.toString(a));
int result =Slove(a);
System.out.println("Total sum "+result);

}
public static int Slove(int []a) {
int sum =0;
for(int i=0;i<a.length;i++)
{
sum +=a[i];
}
```

```
return sum;
}
}

----------------------
package Arraysexam;

import java.util.Arrays;

public class ReverseArrays {

public static void main(String[] args) {
int []a= {10,20,30,40,50}; //static array method
//print array element using to string function
System.out.println("before reverse arrys"+Arrays.toString(a));
//method call and equal to res
int [] res =slove(a);
System.out.println(" After reverse arrys"+Arrays.toString(res));

}
//Array data type method
public static int[] slove(int[]a) {
int temp,l=0,r=a.length-1;
while(l<r){
//Swapping
temp =a[l];
a[l]=a[r];
a[r]=temp;
l++;
```

```
r--;
}
return a;
}

}

-------------------------------------------
package Arraysexam;

import java.util.Arrays;

public class ReversetheCharacter {

public static void main(String[] args) {
char []a= {'@','E','U','I'};
System.out.println("before reverse arrys"+Arrays.toString(a));
//method call and equal to res
char [] res =slove(a);
System.out.println(" After reverse arrys"+Arrays.toString(res));

}
public static char[] slove(char[] a) {

int l=0,r=a.length-1;
char temp ;
while(l<r){
//Swapping
temp =a[l];
```

```
a[l]=a[r];
a[r]=temp;
l++;
r--;
}
return a;
}
}
```

```
package Arraysexam;

public class Sumprimenumber {

// Method to check if a number is prime
public static boolean isPrime(int number) {
if (number <= 1) return false;

for (int i = 2; i <= number / 2; i++) {
if (number % i == 0) {
return false;
}
}

return true;
}

// Method to calculate the sum of prime numbers in the array
public static int solve(int[] a) {
```

```
int sum = 0;
for (int i = 0; i < a.length; i++) {
if (isPrime(a[i])) {
sum += a[i];
}
}
return sum;
}

// Main method
public static void main(String[] args) {
int[] numbers = {2, 4, 7, 8, 9, 11, 13};

int result = solve(numbers);

System.out.println("Sum of prime numbers in the array: " + result);
}
}
```
