AFARI JESSE

P191301

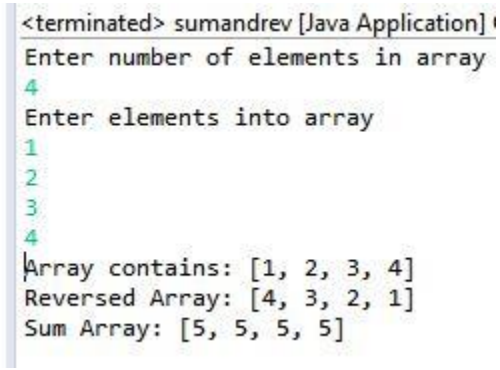
LAB FOUR

TASK 1

```
package lab4;
import java.util.Arrays;
import java.util.Scanner;
public class sumandrev {
	public static void main(String[] args) {
		Scanner sc=new Scanner(System.in);
		int n,i,j;
		System.out.print("Enter number of elements in array\n");
		n=sc.nextInt();
		int arr[] = new int[n];//assigns the number of elements to array size
		int revarr[] = new int[n];
		int sumarr[]= new int[n];
		//for loop for accepting elements in array
		System.out.print("Enter elements into array\n");
		for (i=0; i<n; i++) {
			arr[i]=sc.nextInt();
		}
		System.out.print("Array contains: "+Arrays.toString(arr));
		//reverse array
		int r=n;
		for(i=0;i<n; i++) {
		revarr[r-1]=arr[i];
```

```
                r=r-1;
        }
                System.out.print("\nReversed Array: "+Arrays.toString(revarr));
        //sum
                for(i=0;i<n;i++) {
                        sumarr[i]=revarr[i]+arr[i];
                }
                System.out.print("\nSum Array: "+Arrays.toString(sumarr));
        }
}
```

OUTPUT



TASK 2

```
package lab4;


import java.util.Arrays;
import java.util.Scanner;


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

```
int n,i,j;
System.out.print("Enter number of elements in array\n");
n=sc.nextInt();
int arr[] = new int[n];//assigns the number of elements to array size

//for loop for accepting elements in array
System.out.print("Enter elements into array\n");
for (i=0; i<n; i++) {
        arr[i]=sc.nextInt();
}
System.out.print("Array contains: "+Arrays.toString(arr));
//max
int sndmax=arr[0];
int max=arr[0];
for(i=0;i<n;i++) {
        if (arr[i]>max) {
                        sndmax=max;
                max=arr[i];
               }
        else if(arr[i]>sndmax) {
                sndmax=arr[i];
        }
}
System.out.print("\nSecond max is : "+sndmax);

//
int smallest = Integer.MAX_VALUE;;
```

```
  int secondSmallest =Integer.MAX_VALUE;;
for ( i = 0; i < n; i++) {
    if(arr[i]==smallest){
      secondSmallest=smallest;
    } else if (arr[i] < smallest) {
       secondSmallest = smallest;
       smallest = arr[i];
    } else if (arr[i] < secondSmallest) {
       secondSmallest = arr[i];
    }
}
System.out.print("\nSmallest Number is: "+secondSmallest);
}
}
```

OUTPUT

```
<terminated> secondmaxmin [Java Application]
Enter number of elements in array
4
Enter elements into array
10
20
30
40
Array contains: [10, 20, 30, 40]
Second max is : 30
2nd Smallest Number is: 20
```

TASK 3

```
package lab4;


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

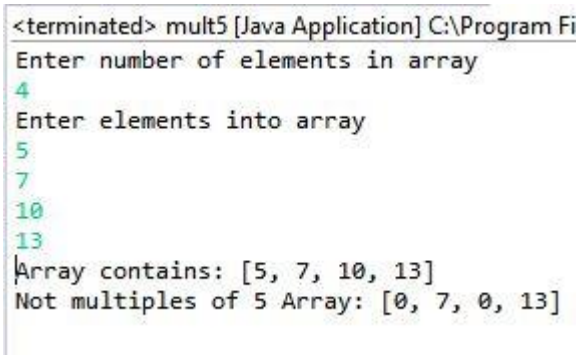
```
public class mult5 {
	public static void main(String[] args) {
		Scanner sc=new Scanner(System.in);
		int n,i,j;
		System.out.print("Enter number of elements in array\n");
		n=sc.nextInt();
		int arr[] = new int[n];//assigns the number of elements to array size

		//for loop for accepting elements in array
		System.out.print("Enter elements into array\n");
		for (i=0; i<n; i++) {
			 arr[i]=sc.nextInt();
		}
		System.out.print("Array contains: "+Arrays.toString(arr));

	//mult 5
		int multarr[] = new int[n];
		for(i=0; i<n; i++) {
			if (arr[i]%5!=0) {
				multarr[i]=arr[i];
			}
		}

		System.out.print("\nNot multiples of 5 Array: "+Arrays.toString(multarr));
	}
}
```

OUTPUT


<terminated> mult5 [Java Application] C:\Program Fi
Enter number of elements in array
4
Enter elements into array
5
7
10
13
Array contains: [5, 7, 10, 13]
Not multiples of 5 Array: [0, 7, 0, 13]