```
import sun.plugin.javascript.navig.Array;
import java.util.Arrays;
 * Created by user on 16/01/2022.
public class Arrayoperation1 {
    public static void main(String[] args) {
        int a[]={11,12,13,14,15};
        System.out.println(Arrays.toString(a));
        System.out.println("after reverse");
        System.out.println(Arrays.toString(reverse(a)));
    public static int[]reverse(int[]x){
        int n=x.length-1;
        for (int i = 0; i < x.length/2; i++) {
            int t=x[i];
            x[i]=x[n];
            x[n]=t;
            n--;
        return x;
}
import java.util.Arrays;
/**
 * Created by user on 16/01/2022.
public class RotateArry {
    public static void main(String[] args) {
        int a[]={11,12,13,14,15};
        System.out.println(Arrays.toString(a));
        System.out.println("after shift left");
        System.out.println(Arrays.toString(shiftleft(a)));
    public static int[]shiftleft (int[]x)
        int t =x[0];
        for (int i = 0; i < x.length; i++) {</pre>
            x[i]=x[i+1];
        x[x.length-1]=t;
        return x;
```

```
}
}
import java.util.Arrays;
 * Created by user on 16/01/2022.
public class RoterArry {
   public static void main(String[] args) {
        int a[]={11,12,13,14,15};
        System.out.println(Arrays.toString(a));
        System.out.println("after shift right");
        System.out.println(Arrays.toString(shiftright(a)));
   public static int[]shiftright (int[]y)
       int t=y[y.length-1];
        for (int i = y.length; i>0; i++) {
            y[i] = y[i-1];
        y[0] = t;
        return y;
    }
}
import java.util.Arrays;
import java.util.Scanner;
* Created by user on 16/01/2022.
public class ArryOperator {
   int x[];
    int numofELements;
   public ArryOperator() {
        x=new int[5];
        numofELements=0;
   public int addElment(int e) {
        if (numofELements<x.length) {</pre>
            x[numofELements]=e;
            numofELements++;
            return 0;
        return -1;
    }
    public static void main(String[] args) {
        ArryOperator test=new ArryOperator();
        Scanner in=new Scanner(System.in);
        System.out.println("input elements");
        for (int i = 0; i <7; i++) {</pre>
```

```
if (test.addElment(in.nextInt()) == 0)
    System.out.println("added sucessfully");
    else
        System.out.println("arry is full");
        System.out.println(Arrays.toString(test.x));
}
}
```

1. Write a Java method that Reverse an array using another array.

```
2. import java.util.Arrays;
    * Created by USER on 31/01/2022.
   public class Reverse {
       public static void main(String[] args) {
           int[]a={1,2,3,4,5};
           System.out.println(Arrays.toString(a));
           System.out.println("enter nmber arrays");
           System.out.println(Arrays.toString(b(a)));
       public static int[]b(int[]w){
           int e=w.length-1;
           for (int i=0;i<w.length/2;i++) {</pre>
               int d=w[i];
               w[i] = w[e];
               w[e]=d;
               e--;
           return w;
       }
   }
```

3. Write a Java method that Clone an array to a backup array?

```
import java.util.Arrays;

/**
    * Created by USER on 31/01/2022.
    */
public class CopiSpare {
    public static void main(String[] args) {
        int[] a = {1,2,3,4,5,6};
        System.out.println(Arrays.toString(a));
        System.out.println("copi");
        int[] z=(int[])Arrays.copyOf(a,6);
        for (int i=0;i<i;i++){</pre>
```

```
System.out.println(Arrays.toString(z));
}
}
```

4. Write a Java method that repeatedly selects and removes a random entry from an array until the array holds no more entries?

```
5. import java.util.Random;
   /**
    * Created by USER on 31/01/2022.
   public class RepeatDelat {
       public static void main(String[] args) {
           int[] w ={10,20,30,40,50,60};
           removeElements(w);
       }
        static void removeElements(int[] w) {
            Random m =new Random();
            while (w.length>0) {
                int in= m.nextInt(w.length);
                System.out.println("=after"+in+"=before"+w[in]);
                int[]e = new int[w.length -1];
                for (int i =0;i<in;i++)</pre>
                     e[i] = w[i];
                 for (int i=in;i <w.length -1;i++)</pre>
                     e[i] = w[i+1];
                w=e;
            }
       }
   }
```