1. One Array into another array

```java
public class Main {
  public static void main(String[] args) {
    int a[]= new int [] {1,2,3,4,5};
    int b[]= new int[a.length];

    for(int i=0;i<a.length;++i){
     b[i]=a[i];
    }
    System.out.println("Original array");
    for(int i=0;i<a.length;++i){
     System.out.print(a[i]);
    }
    System.out.println("Copy of array");
       for(int i=0;i<b.length;++i){
     System.out.print(b[i]);
    }
  }
}
```

Output:
Original array:
12345

Copy of array:
12345

---

2. Frequent count of letter

```java
public class Main {
    public static void main(String[] args) {
        int a[] = new int[]{1, 2, 3, 4, 5, 2, 3, 4, 2, 1, 3, 4};
        boolean[] visited = new boolean[a.length];

        System.out.println("Element Frequencies:");
        for (int i = 0; i < a.length; ++i) {
            if (visited[i]) {
                continue;
            }

            int count = 1;
            for (int j = i + 1; j < a.length; ++j) {
                if (a[i] == a[j]) {
                    count++;
                    visited[j] = true;
```

```
            }
        }
        System.out.println("Element " + a[i] + " appears " + count + "
times.");
        }
    }
}
```

Output:

```
Element Frequencies:
Element 1 appears 2 times.
Element 2 appears 3 times.
Element 3 appears 3 times.
Element 4 appears 3 times.
Element 5 appears 1 time.
```

---

3. Print duplicate element

```java
public class Main {
    public static void main(String[] args) {
        int a[] = new int[]{1, 2, 3, 4, 5, 2, 3, 4, 2, 1, 3, 4, 7};
        boolean[] visited = new boolean[a.length];

        for (int i = 0; i < a.length; ++i) {
            if (visited[i]) continue;

            for (int j = i + 1; j < a.length; ++j) {
                if (a[i] == a[j]) {
                    visited[j] = true;
                }
            }
            if (visited[i]) {
                System.out.println(a[i]);
            }
        }
    }
}
```

Output:
1,2,3,4

---

4. Reverse number

```java
public class Main {
    public static void main(String[] args) {
        int a[] = new int[]{1, 2, 3, 4, 5};
```

```java
        int reverse[]= new int[a.length];

            System.out.println("Reverse Number");
            for (int i=a.length-1; i>=0;--i) {
              reverse[i]=a[i];
              System.out.print(reverse[i]);
            }
        }
}
```

Output:
Reverse Number:[5,4,3,2,1]

---

5. Print Even number

```java
public class Main {
    public static void main(String[] args) {
        int a[] = new int[]{1, 2, 3, 4, 5};
            System.out.println("Print Even Number:");
            for (int i=0; i<=a.length-1;++i) {
               if(a[i]%2==0){
                   System.out.println(a[i]);
               }
            }
    }
}
```

Output:
Odd number:
2,4

---

6. Print Odd number

```java
public class Main {
    public static void main(String[] args) {
        int a[] = new int[]{1, 2, 3, 4, 5}
            System.out.println("Print Odd Number:");
            for (int i=0; i<=a.length-1;++i) {
               if(a[i]%2 != 0){
                   System.out.println(a[i]);
               }
            }
    }
}
```

Even Number:
1,3,5

7. Print odd position:

```java
public class Main {
    public static void main(String[] args) {
        int a[] = new int[]{1, 2, 3, 4, 5};

            System.out.println("Print Odd Position:");
            for (int i=0; i<=a.length-1;++i) {
               if(i % 2 == 0){
                   System.out.println(a[i]);
               }
           }
       }
}
```

Output:
Odd position:
0,1,5

---

8. Print even positon:

```java
public class Main {
    public static void main(String[] args) {
        int a[] = new int[]{1, 2, 3, 4, 5};

            System.out.println("Print Odd Position:");
            for (int i=0; i<=a.length-1;++i) {
               if(i % 2 != 0){
                   System.out.println(a[i]);
               }
           }
       }
}
```

Output:
Even position:
2,4

---

9. Largest number

```java
public class Main {
    public static void main(String[] args) {
        int a[] = new int[]{1, 2, 3, 4, 5};
        int largest=a[0];
            System.out.println("Find Largest Number:");
            for (int i=0; i<a.length-1;++i) {
```

```
            if(a[largest] >= a[i]){
                largest=a[i];
            }
        }
        System.out.println("Largest element "+a[largest]);
    }
}
```

Output:
Largest: 5

---

    10. Small number

```
public class Main {
    public static void main(String[] args) {
        int a[] = new int[]{1, 2, 3, 4, 5};
        int small = a[0];
        System.out.println("Finding the smallest number:");

        for (int i = 1; i < a.length; i++) {
            if (a[i] < small) {
                small = a[i];
            }
        }

        System.out.println("Smallest element: " + small);
    }
}
```

Output:

Output:
Small:1

---

    11. Sum of array

```
public class Main {
    public static void main(String[] args) {
        int a[] = new int[]{1, 2, 3, 4, 5};
        int sum=0;

        for (int i = 0; i < a.length-1; i++) {
            sum +=a[i];
        }

        System.out.println("Smallest element: " + sum);
    }
}
```

Output:

15

---

12. Ascending order

```java
public class Main {
    public static void main(String[] args) {
        int a[] = new int[]{6, 1, 2, 3, 4, 5};
        for (int i = 0; i < a.length - 1; i++) {
            for (int j = i + 1; j < a.length; j++) {
                if (a[i] > a[j]) {
                    int temp = a[i];
                    a[i] = a[j];
                    a[j] = temp;
                }
            }
        }
        System.out.println("Array in ascending order:");
        for (int num : a) {
            System.out.print(num + " ");
        }
    }
}
```

Output:

Array in ascending order:
[1,2,3,4,5,6]

---

13. Deascending Order:

```java
public class Main {
    public static void main(String[] args) {
        int a[] = new int[]{6, 1, 2, 3, 4, 5};
        for (int i = 0; i < a.length - 1; i++) {
            for (int j = i + 1; j < a.length; j++) {
                if (a[i] < a[j]) {
                    int temp = a[i];
                    a[i] = a[j];
                    a[j] = temp;
                }
            }
        }
        System.out.println("Array in Descending order:");
        for (int num : a) {
            System.out.print(num + " ");
        }
```

```
        }
}
```

Output:
Array in Descending order:
[6,5,4,3,2,1]

---

14. Find largest second number:

```java
public class Main {
    public static void main(String[] args) {
        int a[] = new int[]{6, 1, 2, 3, 4, 5};
        for (int i = 0; i < a.length - 1; i++) {
            for (int j = i + 1; j < a.length; j++) {
                if (a[i] > a[j]) {
                    int temp = a[i];
                    a[i] = a[j];
                    a[j] = temp;
                }
            }
        }

        System.out.println("Array in ascending order:");
        for (int num : a) {
            System.out.print(num + " ");
        }
        int secondLargest = a[a.length - 2];
        System.out.println("\nSecond largest element: " + secondLargest);
    }
}
```

Output:
Find second largest:
5

---

15. Remove Duplicate element

```java
public class Main {
    public static void main(String[] args) {
        int a[] = new int[] {2, 3, 4, 2, 3};
        System.out.println("Remove Duplicate Elements:");

        for (int i = 0; i < a.length; i++) {
            boolean isDuplicate = false;
            for (int j = 0; j < i; j++) {
                if (a[i] == a[j]) {
                    isDuplicate = true;
                    break;
                }
```

```java
                }
                if (!isDuplicate) {
                    System.out.print(a[i] + " ");
                }
            }
        }
    }
}
```

Output:
[2,3,4]