**Arrays**

* **To print the sum of elements in an array**

public static void main(String args[]) {

int n = 3;

int a[] = new int[n];

Scanner s=new Scanner(System.in);

System.out.println("Enter elements");

int sum=0;

for(int i=0;i<3;i++){

a[i]=s.nextInt();

sum=sum+a[i];

}

System.out.println(sum);

}

* **Find the largest element in an array**

public static void main(String args[]){

int n;

Scanner s=new Scanner(System.in);

System.out.println("Enter the number of elements");

n=s.nextInt();

int a[]=new int[n];

int max\_index=0;

System.out.println("Enter the elements");

for(int i=0;i<n;i++){

a[i]=s.nextInt();

}

for(int j=1;j<n;j++){

if(a[j]>a[max\_index]){

max\_index=j;

}

}

System.out.println("Largest is "+a[max\_index]);

}

* **Sort an array in ascending order**

public static void main(String args[]){

int n;

Scanner s=new Scanner(System.in);

System.out.println("Enter number of digits");

n=s.nextInt();

int a[]=new int[n];

int b[]=new int[n];

System.out.println("Enter numbers");

for(int i=0;i<n;i++){

a[i]=s.nextInt();

}

for(int i=0;i<n-1;i++) {

for (int j = 0; j < n - i - 1; j++) {

if (a[j] > a[j + 1]) {

int temp = a[j];

a[j] = a[j + 1];

a[j+1]=temp;

}

}

}

System.out.println("Ascending order is \n");

for(int i=0;i<n;i++){

System.out.println(" "+a[i]+" ");

}

}

* **Check duplicates in an array**

public static void main(String args[]){

int a[]={1,4,5,3,4,0,10,5,1,34};

Arrays.sort(a);

boolean check=false;

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

if (a[i] == a[i + 1]) {

check = true;

break;

}

}

if(check==true){

System.out.println("has duplicate");

} else {

System.out.println("No duplicates");

}

}

* **Check duplicates and display them**

public static void main(String args[]) {

int a[] = {1, 4, 5, 3, 4, 0, 10, 5, 1, 34};

Arrays.sort(a);

List<Integer> dublicate = new ArrayList<>();

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

if (a[i] == a[i + 1]) {

if (!dublicate.contains(a[i])) {

dublicate.add(a[i]);

}

}

}

if (dublicate.isEmpty() == true) {

System.out.println("No duplicate found");

} else {

System.out.println("Duplicates are " + duplicate);

}

}

* **Remove duplicates from an array**

public static void main(String args[]) {

int a[] = {1, 4, 5, 3, 4, 0, 10, 5, 1, 34};

Arrays.sort(a);

List<Integer> duplicate = new ArrayList<>();

duplicate.add(a[0]);

for (int i = 1; i < a.length - 1; i++) {

if (! (a[i] == a[i - 1])) {

duplicate.add(a[i]);

}

}

int result[]=new int[duplicate.size()];

for(int i=0;i< duplicate.size();i++){

result[i]=duplicate.get(i);

}

System.out.println(Arrays.toString(result));

}

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