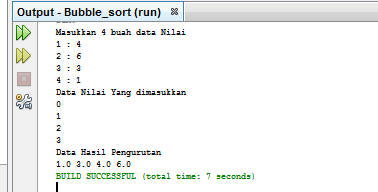
Praktik 1 menggunakan selection sort Ascending

|  |  |  |
| --- | --- | --- |
| |  |  | | --- | --- | | static int[] x =new int[100];  static int i,j,index,large,n;  public void input(){  Scanner sc = new Scanner(System.in);  System.out.print("Masukkan Banyak data yang ingin dimasukkan = ");  n = sc.nextInt();  for(i = 0;i<n;i++){  System.out.print("Masukkan data "+(i+1)+" = ");  x[i]= sc.nextInt();  }  }  public void sort(){  for(i=n-1;i>0;i--){  large= x[0];  index = 0;  for(j=1;j<=i;j++){  if(x[j]>large){  large= x[j];  index = j;  }  }  x[index]= x[i];  x[i]=large;  }  System.out.println();  } | public static void main(String[] args) {  Selection\_sort ok = new Selection\_sort();  ok.input();  ok.sort();  System.out.print("Data Yang Sudah urut = ");  for(i = 0;i<n;i++){  System.out.print(x[i]+ " ");  }  System.out.println();  System.out.println();  }  } |   Output : |

Praktik 1 menggunakan Bubble sort Ascending

|  |  |
| --- | --- |
| public void Bubble\_sort(float larik2[]){  for(int i=0;i<larik2.length;i++){  for(int elemen = larik2.length-2;elemen>=i;elemen--){  if(larik2[elemen]>larik2[elemen+1]){  tukar(larik2,elemen,elemen+1);  }  }  }  }  public void tukar(float larik3[],int satu,int dua){  float temp;  temp = larik3[satu];  larik3[satu] = larik3[dua];  larik3[dua] = temp;  }  public static void main(String[]arg){  Scanner sc = new Scanner(System.in);  Bubble\_sort lrk = new Bubble\_sort();  float nilai[] = new float[4];  System.out.println("Masukkan 4 buah data Nilai "); | for(int i = 0;i<4;i++){  System.out.print((i+1)+" : ");  nilai[i] = sc.nextFloat();    }  System.out.println("Data Nilai Yang dimasukkan ");  for(int i=0;i<4;i++ ){  System.out.println(i);  }  System.out.println("Data Hasil Pengurutan");  lrk.Bubble\_sort(nilai);  for(int i = 0;i<4;i++){  System.out.print(nilai[i]+" ");    }  System.out.println();  }  } |

Output :



Latihan

1. Menggunkan Selection Sort Descending

|  |  |  |
| --- | --- | --- |
| |  |  | | --- | --- | | public class JavaApplication3 {  static int[] x =new int[100];  static int i,j,index,large,n;  public void input(){  Scanner sc = new Scanner(System.in);  System.out.print("Masukkan Banyak data yang ingin dimasukkan = ");  n = sc.nextInt();  for(i = 0;i<n;i++){  System.out.print("Masukkan data "+(i+1)+" = ");  x[i]= sc.nextInt();  }  }  public void sort(){  for(i=n-1;i>0;i--){  large= x[0];  index = 0;  for(j=1;j<=i;j++){  if(x[j]<large){  large= x[j];  index = j;  }  } | x[index]= x[i];  x[i]=large;  }  System.out.println();  }  public static void main(String[] args) {  JavaApplication3 ok = new JavaApplication3();  ok.input();  ok.sort();  System.out.print("Data Yang Sudah urut = ");  for(i = 0;i<n;i++){  System.out.print(x[i]+ " ");  }  System.out.println();  System.out.println();  }  } |   Output : |

1. Menggunkan Bubble Sort Descending

|  |
| --- |
| public void Bubble\_sort(float larik2[]){  for(int i=0;i<larik2.length;i++){  for(int elemen = larik2.length-2;elemen>=i;elemen--){  if(larik2[elemen]<larik2[elemen+1]){  tukar(larik2,elemen,elemen+1);  }}  }  }  public void tukar(float larik3[],int satu,int dua){  float temp;  temp = larik3[satu];  larik3[satu] = larik3[dua];  larik3[dua] = temp;  }  public static void main(String[]arg){  Scanner sc = new Scanner(System.in);  JavaApplication4 lrk = new JavaApplication4();  float nilai[] = new float[4];  System.out.println("Masukkan 4 buah data Nilai ");  for(int i = 0;i<4;i++){  System.out.print((i+1)+" : ");  nilai[i] = sc.nextFloat();  }  System.out.println("Data Nilai Yang dimasukkan ");  for(int i=0;i<4;i++ ){  System.out.println(i);  }  System.out.println("Data Hasil Pengurutan");  lrk.Bubble\_sort(nilai);  for(int i = 0;i<4;i++){  System.out.print(nilai[i]+" ");  }  System.out.println();  }  }  Output : |