DAY-18

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Examples for 1D array:

example 1:

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Demo.java

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//WAP to store and print marks of 5 students.

import java.util.\*; // package

class Demo

{

public static void main(String[] args)

{

int a[] = new int[5];

Scanner sc = new Scanner(System.in);

System.out.println("Enter the marks:");

a[0]= sc.nextInt();

System.out.println("Enter the marks:");

a[1]= sc.nextInt();

System.out.println("Enter the marks:");

a[2]= sc.nextInt();

System.out.println("Enter the marks:");

a[3]= sc.nextInt();

System.out.println("Enter the marks:");

a[4]= sc.nextInt();

System.out.print(a[0]+ " ");

System.out.print(a[1]+ " ");

System.out.print(a[2]+ " ");

System.out.print(a[3]+ " ");

System.out.print(a[4]+ " ");

}

}

output:

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Enter the marks:

87

Enter the marks:

92

Enter the marks:

37

Enter the marks:

59

Enter the marks:

64

87 92 37 59 64

example 2:

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Demo1.java

----------

// WAP to store and print marks of 5 students.

import java.util.\*; // package

class Demo1

{

public static void main(String[] args)

{

int a[] = new int[5];

Scanner sc = new Scanner(System.in);

for (int i=0;i<=4 ;i++)

{

System.out.println("Enter the marks:");

a[i]= sc.nextInt();

}

for (int i=0;i<=4 ;i++)

{

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

}

}

}

output:

-------

Enter the marks:

87

Enter the marks:

92

Enter the marks:

37

Enter the marks:

59

Enter the marks:

64

87 92 37 59 64

example 3:

----------

Demo1.java

----------

//WAP to store and print marks of 5 students.

import java.util.\*; // package

class Demo1

{

public static void main(String[] args)

{

int a[] = new int[5];

Scanner sc = new Scanner(System.in);

int i;

i=0;

while(i<=4)

{

System.out.println("Enter the marks:");

a[i]= sc.nextInt();

i++;

}

i=0;

while(i<=4)

{

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

i++;

}

}

}

output:

-------

Enter the marks:

87

Enter the marks:

92

Enter the marks:

37

Enter the marks:

59

Enter the marks:

64

87 92 37 59 64

example 4:

----------

Demo1.java

----------

//WAP to store and print marks of 5 students.

import java.util.\*; // package

class Demo1

{

public static void main(String[] args)

{

int a[] = new int[5];

Scanner sc = new Scanner(System.in);

int i;

i=0;

do

{

System.out.println("Enter the marks:");

a[i]= sc.nextInt();

i++;

}

while(i<=4);

i=0;

do

{

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

i++;

}

while(i<=4);

}

}

output:

-------

Enter the marks:

87

Enter the marks:

92

Enter the marks:

37

Enter the marks:

59

Enter the marks:

64

87 92 37 59 64

example 5:

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Demo1.java

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//WAP to store and print marks of n number of students.

import java.util.\*; // package

class Demo1

{

public static void main(String[] args)

{

System.out.println("Enter the length/size of the array:");

Scanner sc = new Scanner(System.in);

int n = sc.nextInt();

int a[] = new int[n];

System.out.println("the length of the array is: "+a.length);

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

{

System.out.println("Enter the marks of the students");

a[i] = sc.nextInt();

}

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

{

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

}

}

}

output:

-------

Enter the marks:

87

Enter the marks:

92

Enter the marks:

37

Enter the marks:

59

Enter the marks:

64

87 92 37 59 64

example 6:

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Demo1.java

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//WAP to store and sum the values and print sum value.

import java.util.\*; // package

class Demo1

{

public static void main(String[] args)

{

System.out.println("Enter the length/size of the array:");

Scanner sc = new Scanner(System.in);

int n = sc.nextInt();

int a[] = new int[n];

System.out.println("the length of the array is: "+a.length);

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

{

System.out.println("Enter the marks of the students");

a[i] = sc.nextInt();

}

int sum = 0;

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

{

sum = sum+a[i];

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

}

System.out.print("The sum of values is : "+ sum);

}

}

output:

-------

Enter the length/size of the array:

10

the length of the array is: 10

Enter the marks of the students

10

Enter the marks of the students

20

Enter the marks of the students

30

Enter the marks of the students

40

Enter the marks of the students

50

Enter the marks of the students

60

Enter the marks of the students

70

Enter the marks of the students

80

Enter the marks of the students

90

Enter the marks of the students

100

10 20 30 40 50 60 70 80 90 100 The sum of values is : 550

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