Data

Information

raw, not weful

organised data, useful

Ques.

marks of 5 students find avg.

int s1 = scn. next Int(); int s2 = scn. next Int(); int s3 = scn. next Int(); int s4 = scn. next Int(); int s5 = scn. next Int();

int sum = c1+s2+s3+s4+s5;

double ang = 5 mm;

S1 S2 S4

Arrayis - Data staucture collection of same type of data int n = 10; $\rightarrow 1$ integer 10 int space nint [] our = new int [5]; -> 5 integer

J Size Spaces

datatype neure

Over create an array that can store 6 integer values.

int [] arr = new int [6];

```
index ->
                                             S. O.P ( arr [n]); // Emor
size = n
          create an array of 5 size and their take input from user of 5 integer values.

Store them in array and print them.
                                                 I/P → 10 20 5 9 7
       int [] arr = new int [5];
                            = scn. next Int();
                arr [0]
                              Scu. next Int ()
                 ar [1]
                              Scu. nex + Int ();
                 au [2]
                              Scu. nex + Int ();
                 ar [3]
                            : scu. next Int ();
                ars [4]
```

```
int index = 0;
   arn (index) = Scu. vext Int();
                                     // our [0]
     index++;
   arr (index) = scu. vext Int();
                                     // arr [1]
    index++;
   over (index) = scu. vert Int();
                                    1/ arr [2]
     index++;
   arr (index) = sur vext Int();
                                   1/arr [2]
    index++;
   arr [index] = Scu. vext Int(); // arr (4)
    index++;
                                        62=4
                                         145
```

```
for (int i=0; i<5; i++) & I/p -> 10 20 5 9 7
         our [i] = scn. next Int ();
                                 ift
                    arr [i]
          125
                    arr [o]
         true
         tone
                    arr [i]
         torie
                     arr [2]
        toue
                     arr [3]
                     Ore (4)
         toue
          false
                              > Break
     fou (int i=0; i<5; i++) {
              S.O.P ( arr [i]);
```

highest marks scored [maximum element of] int[] marks - 21,150,17,05} int n = marks, length; // n = 6 any = int max = 0; for (int i=0; i < n; i++) \$ if (marks [i) > max) of max = marks [i]; S.O.P (max);

max = 0

l	î < 6	marks [i] > max	max	C++
0	tone	1 > 0 (true)	1	1
1	tone	15 > 1 (toue)	15	2
2	tone	21-15 (toue)	21	3
3	torre	100>21 (tone)	100	4
4	foul	17 7 (50 (false)	lo	5
5	fre	85 > 100 (false)	150	6
6	falle —		break	

max = 100

int [] arr = new int [4]; x

int [] arr = jut new [5]; x

int [] arr = new int [5];

Quiz 2. int D arr: new int [5];

int sum = 0;

for (int i=0; i<6; i+1) { i<6

Sum + = arr[i]; i=012345

}

S.O.P (Sum);

Array Index Outof Bounds

aniz3.

int [] our: new int [5];

0 0 0 0 0

int sum = 0;

fou (int i=0; i<5; i++) {
Sum + = arr[i];

0707070

4

S.O.P (Sum); //0

Quizy. int [] arr: new int [5]; ar [0] = 10; arr [1] = 20; int sum = 0; for (int i=0; i<5; i++) { 10+20+0+0+0

Sum + = arr[i]; S.O.P (Sum); -> // 30

Quiz 5. int [] aux = {1,2,5,6.3}; int sum = 0; for (int i=0; i25; i++) {
Sum + = arr[i]; // 1+2+5+6+3

duiz. what is the last Endex of an array of size N

Point in reverse

$$O/P \rightarrow 5 + 3 2 1$$

3

$$0/p \rightarrow 5 4 3 2 1$$