

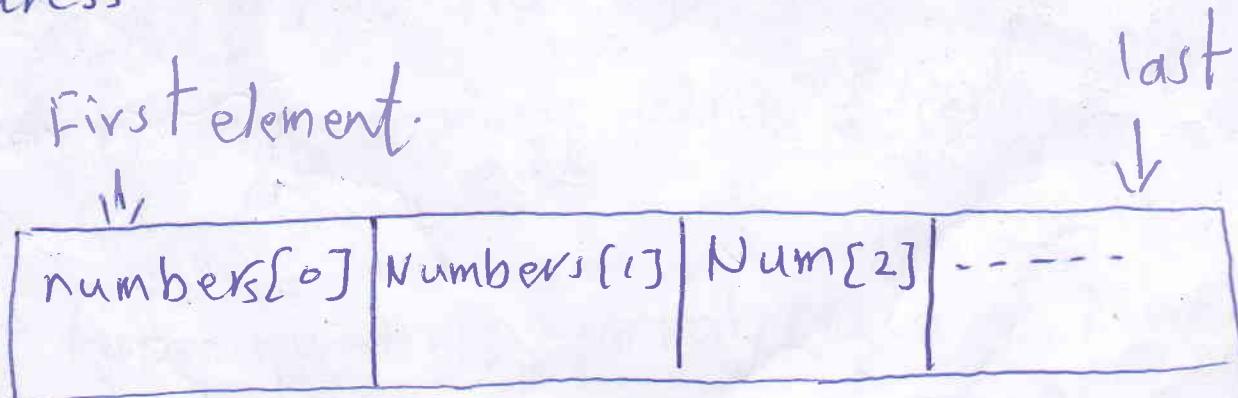
arrays:

pascal programming language

provides a data structure called the array which can store a fixed-size sequential collection of elements of the same type. An array is used to store a collection of data.

All arrays consist of contiguous memory locations. The lowest address corresponds to the first element and the highest address corresponds to the last element.

First element:



Declaring Arrays:

The general form of type declaration
of one-dimensional array is:

{ type
array-identifier = array [index-type] of elem
typ
} or

type array name = array [lower..upper]
of data-type is

{* lower and upper define the boundaries
} for the array.

* data type; is the type of the variable
which the array will store-

ex:- type numbers = Array [1..20] of integer

يُعرف في

Syntax:

Var

range



array name: Array [elements] of ~~type~~ type
~~elements~~

ex1

Var

numbers: Array [1..5] of integers;

ex2: Pr

* ادخال قيمة عن طريق جملة لـ لستة
* (الخطوات تسمى بـ لستة)

Var

x: array [1..10] of integers;

Begin

x[1]:= 3;

x[5]:= 2;

writeln (x[1]*x[5]);

writeln (x[1]);

end.

Output

6

3

④

two characters are represented:-
internally most computers store characters
according to the ASCII Format: ASCII
stands for American Standard Code for
Information Interchange.

Character are stored according to a numbered sequence, where A has value 64 in decimal system, B a value of 65 etc several function which manipulate characters follow.

• CHR:- the chr or character function returns the character associated with the ASCII code being asked.

ex: chr(65) will return the ~~B~~ A

• ORD:- or ordinal function returns the ASCII value of a requested character

ex:- ord('c') will give 67

SUCC :- the Successor Function.

determines the next value or symbol in the set.

ex: succ ('d') will return e

- PRED :- Predecessor function determines the previous value or symbol in the set.

ex: Pred ('d') will return c.

Ques: write pascal Stmt to create an array called mynumbers, of type numbers which is an integer array with elements ranging from 1 to 20.

~~ex. Program~~
~~var~~
~~m: array[1..10] of integer;~~
~~i: integer;~~
~~begin~~
~~for i:=1 to 10 do~~
~~n[i]:=i+100;~~
~~for i:=1 to 10~~
~~writeln ('Element [', i, '] = ', n[i]);~~

- false

لارڈھاں ایسے ہیں جو ریق بجلتے ہیں اور دھاں :

إذا كانت لرينا صفة حكمة من شأنها أن تغير (موقع)
وزير دولة (الخارجية) فرأى في ذلك خيراً فأنت لا يغير
 شيئاً للوقة إن تقرأ عن تغير صفة

Read ($x[1]$);

Real ($x[2]$)

Reed ($x[30]$)

لذلك وجب استخدام تكرار طبق نهوم بفراده

طبع الفقي في سهران مخطوطة

```
for i:=1 to 30 do
```

Read In ($x[i]$):

٤ Program array؛ يطبع ١٠ أحرف في مصفوفة ويجبر على طباعتها بالعكس

Var

I: integer;

X: array [1 .. 10] of char;

Begin

For i := 1 to 10 do

Read (X[i]);

For i := 10 down to 1 do
write (X[i]);

end.