

Victoria University of Bangladesh

Course Title : Structured Programming Language

Course Code : CSI-121

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Program : CSIT (Day)

Answer to the question numbers 01

@ Function Declarations: A function declaration tells the complier about a function's name, neturn type, perameters. A functions definition provides the actual body of the suretion.

Void /int Fun () {
Print f (" hello world");
}

6 In order to declare function, firstly we have to declare the neturn type then the name of the function after words we need to put parameters and finally a pair of curly brockets. See the Sollowing example.

Answer to the question numbers 1/0

The netwon type will be int and the function will necesive one froctional on float number and another one will integer number.

Answer to the question number : 02

0

An annay is a collection of similar data elements sorted at contiguous memory locations.

Declaration & first at all, we need to declare the type of annay and then the name of the annay and then we have to part the number how many elements it can be sorted.

For an example, int list [5]; type name Annay Initialization i int list [6] = {1,2,3,4,5}; Answer to the question number ? 2 a[2] [0] value is 30 a [2] [1] values is 40 a [1] [1] value is 24

Answer to the question numbers oz

The dimensional Annay & The two dimensional annay of can be defined as an annay of annays. The 2D annay is organized as matrices which can be represented as the collection of nows and columns. However, 2D annays are eneated to implement a melational database lookalike data structure. It provides ease of holding the passed to any number of functions wheneas nequined.

int 文 [5] [5] 次 fri

Multi Dimension Annays &

a multi dimension annay ear be tunned as an annay of armays that stones homegeneous data intabular form. Data in multi-dimensional are souted in now-major order.

int x Las [as] [as]

Answer to the question number of 2

Null Pointers At a very high level we can think of null as a null pointer which is used in a for various purposes.

int * pInt = Null;

Answer to the question number 8 03

(a)

single entity holding vaniable of different data types that are logically related to each other. All the data members inside a structure are occessible to the functions defined outside the structure. To access the data members in the main function, you need to eneate a structure vaniable. Syntax to define a structure in c

Struct Struct Name

{
// structure definition

Data - type 1 member - name 1;

Data - type 2 member - name 2;

Data - type 2 member - name 2;

};

Brample :

struct My structure { // structure declaration
Int Mynum;

(int variable)

Chan my letter; // member (chan vaniable)

}; // End the structure with a semi-colon.

Answer to the question number & 3

steps to Read a file :

open a file using the function of open () and stone the meterenex of the file

```
In a file pointer.
A Read contents of the file using any of
  these functions fget(), fget(), fsean () on
  f nead ().
         fact al)
       int Fget e (FILE x ptn);
whole line from text file :
     # include Lstdio .h)
        void main () {
        int line Num = 0;
     chan line content [ 100];
     Print & ("4.51", line content);
```

Answer to the question number 3 3

A file is a collection of data stoned in one until; identified by a filename. It can be a document, picture, audio on video stream, data library, Application on other collection of data.

The topen () function is used to emeate a tile or open an existing file;

fp = topen () function is used to aneate a tile on open an existing tile.

fp = fopen (const chan filename, const chan mode);

To close a sile, use the member function close ().

x451. Close ();

The close function takes no parameters and neturns no values.

Answer to the question number: 3

File handling is one of the most important topies in the clanguage. In case of file handling, tile opening modes play, an important mole in executing these programs. There are general types of modes available in the opening modes. Each of them will discuss in our article.

include Zstdio.h)

include Zstdio.h)

int main ()

fint n;

file * Fp:

```
fp = fopen ('write text ", "w"); //
 file opening mode
    if (fp = NULL)
    I print f ("File not found)");
        (and (1)).
       n = 2354;
 f print F(Ap, 1/d, n)}; Usen Of f printf. Un)
 Fclose (A); // File is closed.
     netunn o;
```

Answer to the question number 3 05

A pointer is supremely useful in a programing. They are extremely efficient to use which is what makes their popular, we need to declare pointers to access that particular address on to get the reference to the variable declaried pointers are used to get a faster execution time.

byntax i

datatype * pointen -vaniable name

Example ;

int * ptn 1 3

Explanation :

much make sume that, the data type you're using is a valid c. Data type and that the pointer and the variable to which the pointer variable points must have the same data type.

For example, if we you want to pointer to point to a variable of data type int, ie int var = 5 then the pointer must also be of data type inti, e, int * ptn="">
The * symbol indicates that the variable is a pointer. To declare a variable as a pointer, you must profix id with *.

In the example above, we have done a pointer declaration and named ptn a with the data type Integer.

Answer to the question number 85

1) strepy: strepy () tunction is used to eopy a character vaniable.

Syntax:

chan city [15] Strepy (city, " Bangladesh")

This will assign the string "Bangladesh" to the character variable city.

[Note]: That charmacter value like city = "
Bangladesh" 5' can not assign in Clarguage.

1 stylen () function &

striken () function is used to find the length a character strong.

Syntax:

int n:

Than st [20] = "Bangladesh";

This will memain length of the string 0:10 which is assigned to an integer variable n.

[Note]: That the null aharmeeten 1700 a. vaniable at the need of a string is not counted.

(11) strestr (): The strestr () function neturns pointen to the first accumence of the matched string in the given string. It is used to neturn substring from moter till the last champeter. Syntax: Chan # stristn (const chan #string 1 const chammatel) @ Answer: 258'44 * 3910