i Eunlamental's It at do you mean by programing language? \* \*\* Ans A programming language is a tournal computer language designed to communicate instructions to q language can be used to create programs to control the behavior of a muchine to on to express algorithms Quehat is C program? In Ams: C is a high-level and general purposese programoring language that is ideal for developing born ware on portable applications. C was developed at Bell Labs by Dennis Ritchie Non the Univer Operating System (05) in the early 1970s. Suchat is Sunction? //x Are A function is a group of statements that togeth er pertonn a task Every C program has at least one function, which is main(), and all the most trieveal programs can detine additional Functions A p code can be devided into reparate functions. program can be

Ans: A statement specities an action to be pertormed by the program. In other words, statements are the parts of your program that actually portorm operations. All C statements end with a semison colon. For example,

Any net type? I he type of data netword by
the bunction.

Ams a is case sensitive which means that a successful such as Mybunce and my bunce and many bunce and many ditterent names.

Similarly, Nam and nam one two deterent variety ble. For example, #include < 51! 10. h)

int main()

{

int & k;

B=10;

prient b("760", b.);

return o;

Anns: A variable is a married memory in abion.

That can hold various values all variables must

be declared be tobre their using.

To declare a variable, the general tosam:

type var-name;

where type is a c data type and variname is the name of the variable. For example int counter;

That so you mean by local variable and global variable?

Ans: Variables declared inside a function are called local variable. Local variable many be accessed by omely that trunction in which it is declared. For example,

Ans A function is a block of code that

Ans A function is a block of code that

pertosoms a specific tast. C allows you to

pertosoms a specific tast. C allows you need.

detine functions according to your need.

These functions are known as user-dibined

These functions for example suppose you need to

coreate a wick and color it depending upon

the radius and colost.

#include stdioh)
int radius color (void);
int min()

a = sindius-colosi();

} isot stadius colose()

1 what is leader tile?

Ans A head is dele is a kile with extensioned in which contains C function declarations and mac to debinitions to be shared between several source) file. There are two types at header diles the biles that the programmer with the programmer with the compiler.

## Ans: The dilberence between global variable and local variable are given below: the detterance

| The second secon |  | The special and the second  | 1 1  |
|--|--|---|--|
| W) Griobal sociables can maintain their values between finction calls.   | one function have relation able in the global variation  | entine timpe a pregram is exect thing.  is exect ting.  linitational variables are used by all tunction and response.   | (i) Variables declared outside all Jun Hons are called global pariables  |
| between function calls.  | one function have relate function have no relationship oriship to the global varietion another function. | entire time a program yet when the function is exect ting.  is exected.  iii) Local voriables are used what function in which they only that function in which they are declared. | (i) Variables declared outside (i) Variables declared inside all Jun Hons are called a Junction are called a Junction are called a Junction are called a Junction are called |

And is do-while loop is a most the same as a while loop execute that the loop boody is quananteed to execute at least once. The code must always be executed thirst and them the test condition is evaluated. It it is torue, the code executes the body out the loop again.

do {

3 while ( consistion);

Ans I used to think both are completly same But some ditterence have between them both Given below some ditterence;

1. A while loop will chech the condition tirst before executing the content.

while

do-while

the while do while loop cecutes the content of the loop once before checking the condition of the while

4. There is no semicolon swhile is an entry contristate ancest. while of (acto) loop. rection is at the begin The end of while porent of " of a", a); 2++3 2 Candition re 3. do-while is 5. do { prints ( ... ) " a); 4. There is se nicolon at - ment. the end od contral loop. o. I the lock ? while ( a < 10); block. in wit while state ent the end

suens on times and consists at another book sinside it. The immer doop sue is on times the immer. Then the immer the propriam e-e-uting is lead the propriam the e-uting is 53 what is the norted loop in c? Arm: A loop inside another loop is called a nexted loop. Consider a muled loop colume to enter loop 九米的.

Abor mext iteration, skpping the e centron as statements inside Loop's body Non the current iteration.

bon(1:0;110;1++)

continue; prints(09,d",0i); // never secuted

what is the diktonence between bounds

Ans: Dikterence between break and con linue:

| 2. The break statement can 2. The continue statement be used in both | mitch or loop | contrad out of the    | P                    | emenuatived it terminates | inter brook statement ist. When a continue | break     |
|--|---------------|-----------------------|----------------------|---------------------------|--|-----------|
| can appear only in   | of the Jop.   | to the Meet werestion | it gets the contract | statement is encountered  | 1. When a continue                         | confir le |

Daten between it else and

| <br>ute              | el  | Execution 4                                | Detautt in                                       | 1                           |                        |                           | Segmente                 | A AMERICA MARIA MARIA | Evaluation                                |                            |                     | Testing                   |                   | Empiression            |                    |                          | Basic                      | Basis  | 16 |
|----------------------|---|--|--|-----------------------------|------------------------|---------------------------|--------------------------|-----------------------|---|----------------------------|---------------------|---------------------------|-------------------|------------------------|--------------------|--------------------------|----------------------------|--------|----|
| uted it created.     | he statement is exec-                         | an by debaut the                           | & statement is balse,                            |                             | cuted.                 | statement will be exe-    | Either it statement will | or boolean type.      | Evaluation integer, character, point type | it statement evaluates     | logical expression. | it itse statement test to | multiple choices. | multiple statement von | range of statement | output at the expression | executived depend upon the | it she |    |
| executed it created. | else statement is exec- bon that instance the | than by default the match with any orknown | is statement is balse, switch statement does not | switch statement is meached | appeared on the and od | till a break stat ment is | switch statement execute | interpor varia.       | only character on                         | switch statement evaluates | logical expression. | the equality              | multiple must     | simple empression      | see transfer detri | user.                    | executed is decidal by     | switch |    |

long int

short int

unsigned short int

int

short int

short

Ans: Constant soker to bixed values that the program may not after during its execution. Constants can be not any ob the basic data types like an integer constant, a klouting constant, a chanaler, constant, a string constant.

There are two simple ways in a to detime constant

I thing court known tength = 10;

(1) Ams: A type cost temporarily changes the type at a value. For example, what is a type coul ? Bure an o manage we

print & (int): (int): (int):

Here, the trype east courses the value of it to converted to an int.

one dimentional assury. A one-dimentional array is like a last; A two dimen tional array is like a table. The jeneral troops at (43) to hat it an array? the same type accessed using a common name

type var name [ size];

where type is a valid of data type, variance is the mame ont the array and size speciestes

ukanente in

## i'm's my way [20];

Ars: A strong in a is defined on · teriminated character overy.

Assi library functions in c language one inbuilt functions which are grouped together and placed transfer and placed to a common place called library.

on ob precentated soutines that a program can we.

Seamalles) or particular outpositivity. The parablem age language because to solve à large problem Ami C is called a structured programming language in , c programming language divides the problem anto smaller modules called Functions which solves the entire problem is a collection

to what is structured programming language 1003: Stouctured programming is a subset of procedural programming that emborces a logical. sinucture on the program being written to make it more exticient and easier to understand and modify Is what is away of string in a langue to 1.75: A string is actually one simentional arrange ob charecters in a language and terminated by a null cherecter 10! GG - 21.4 \* Structure porogramming in a logical programming mathol that in considered a precursor to object ordented programming (00P), stancture Brogramming facilities program understanking and the a top- fown flowing approach, where a pyrtem in height de suto composition of system