C language…

The c used for system developing..

C is very much faster that compared with java and python 🡪becoz python and java needs ther pvm and jvm

Basic structure of c

1. Documentation section 🡪it under goes to be in comment section like (cmnd)(/\* …\*/)
2. /\* description : --ex : modules add,sub /int add(int val1,int va12):add is doing addition of val1 with val2 and return the resukt to the called (main)
3. Author: BN
4. Doc/dom: 29-10-2024
5. Version: 0.1v (at initial the version will be 0.1)(in pull we can edit but in push we cant edit)
6. 🡪((**1.0**))—is call stable version and it can be taken for basing project….
7. \*/
8. Link Section 🡪(references)
9. Defination🡪we create macro/prototyping (defining variables)
10. Global declaration 🡪variables that can accessible from global(static variable)(global variables)
11. **FUNCTION SECTION** 
    1. Cdamel case , 2L underscore
    2. By using caps we can find files
    3. 🡪every function has its own address(**main—says it should be starting**)
    4. Main()🡪 main should not be done with out return type(so we int or void)
    5. {
       1. Declaration-- >(in c 1st we declare the variable what type it is and then we use it)
       2. Executable -- >

}

**…….chapter 2…….**

1. Character set…
2. Carriage return /r🡪used for the cursor should at starting line.. new line(/n) – the cursor will be at 1st position of the new line
3. Key words (32 keywords)(int,float….ets)
4. Identifiers(variable)(should not start with numerics,$symbol)
5. Constants (the value cant be changed)(numeric constants,string)
6. String constant (‘single quate is used for single character’not used for word)
7. Ex: int c=”2004”+3🡪here it is illigel here “2004”—it is string and provides ascill with null value that couldn’t combine with integer so it not possible
8. But if we int c=’2’+2 it provide o/p—asciii value
9. **Operators** : arithmetic,logical,bitwise,relation(comparing—t/f),assignmentoperators

**Logical operators:** compare the 2 arthemetic operation

not high – results low /not low – results high (logic operators) (!not operator)

1. Example : int a=-1;

If(!a) --(in bit there is unsigned vale)(it just take it as value not sign whether ther is inc bit or dec bit)(so if a=0 only the out be “H”)

{

Printf(“H”);

}

Else

{

Printf(“p”);

}

Output is :p

1. **Bitwise operators**

* Left shift (ls)<< ex: the bit is 1001 by using lest shit – (0010) the 1st bit becomes grnd and the other bits move left
* Right shift(rs)>>ex: the bit is 1001 by using right shit – (0100) the lastst bit becomes grnd(the bit wont be)(ans that bit place occupied by other bits too) and the other bits move right
* Bit and = & Bit or=| and xor=^ and not =! (2’s compliment)

1. Data types

User defined datatypes🡪structure ,enum,

Defined datatypes🡪arrays,strings..etc

-🡪dattypes (int,float,char,short,long)

modif

7. size of function is not an operator we cant excute the functions 🡪(print f I also consider as function –imp

**……chapter4…..**

Formatted and unformeted

Formatted :we can define the bandwidth🡪(scanf(),printf())

Unformatted : we cant define the bandwidth (every thing wi,ll be dealed on characters ) 🡪(getchar(),putchar(),gets(),puts()))

Fgets(char \*, int size,file \*stream) ,,,,,, fputs(char\*file\*stream)

Scanf()🡪syntax

Scanf(“control string”, address list)(we have to supply address list what we scanned should have address )



( The which type of input have to take)

%u – unsigned value

How it takes input:

Num=9879;

Scanf(“%3d’’,&Num);

Here it take only 3digits and the remaining are in buffer

Examples ;

Scanf(“%d %d %d ,”&q &p &h)

Printf(“%05d”,980)

If we give 0 it indicate the remaining spaces will be filled with 0

In printf the bereference (we picking the value whue which is strored at)

Learning how to write sytax and how load values and how todisplay the values

A screen shot of a computer code

Description automatically generated



Here In the code **%3d** that indicates it how much vadigits it should be store and **%05** in print statement indicate that how many digits should be display if there is no that many digits it keeps 00 so the o/p🡪00768 (i/p)🡪(789)

BUFFER –IMP

Fflush : used to flush or remove the bug that which i9 got in scanf and it is used in unix not in linux

Int fflush(file \*stream)

Scan the employee records print in particular record

Id,name, gender,address,phone ,number salary ,designation

SlNO ID name GENDER ADDRESS PHNO SALARY DESG