Bosic Cprogram Structure # include. " Controller. h" > i/o. Port/sy namy paddsesses force. unt Count, bob; global, Cstatic) variables. Placed in RAM. int function! (charn) 1/ parameter. n passed to the f, fun returns In In definitions! an. integer value. 11 local. (automotic) variables - allocated to stack or register's. -instructions to implement The 1. /* main prog * Void main word.) } Untigned Char Sul! 7 local Cantomatic) variable (Stack or org.) 1+ Initialization Section*/ instructionis to initialize. Variables, I/o posts devices, forg, 1 th Endless loop memory med Control (deta veg. 了while (1) { |ox棚間 CNVIC, SX HCK Controlles Control Reduta Peripheral (himer, ADC'S, UART'S, etr) < Vonable & Stack LOKE RAM Drood Cock & 256 Kb Constant data Storay - Reset L intersupt vecha 1st woods of flosh.

Harlet &

NAC > 240 -reprioritzed.

The Pre. Processor. => Resolver # define Statement's (constructs, vortype, macro's.)

=> Concertenate # cindude file & Source file into Read biff => Processey # ifdet => # endif statemb => Processey # if _ # ender Studements. # => po E.Z. Bre-brocessor. opo brocers ot Vendos -- Specific directives (non-ANSI) # progra. # define. one o printf ("one us other"); = endif. # iIndef one print (" one is not defined"); # endif. # define block 8 => main & # 1'd por -poolessings.

A direktor. # Macro one result of a # 14he. Statement. # pre-processor is a feature of c. Pre-process - file including, marco expansion, conditional. Compilation a word defined by # define pre-processor directive that evaluates to some our expression's.

GP10

unite

Penel 32 ADC

Syst

Vomabl.

Aoro

int n C

ontype, ال 么. Jan. pileton 18-8.

(- compiler deta types. Data type example. Read bit from - uintlet. n; n= GPIOA -> IDR. write TM2. value. - Uintlet t; TIM2 -> PSC = t. Read 32 bit value form a = ADC. - Uint 32-t a; Sporter Compation Sand -int32_t Ct/, Ct-1 = (x+y)*2) Voriable: - is an addressable Storage location. to information to be used by the porgram. -> each. variable must be declared to indicate Size and type of information to be. Stored, Plus name to be used to referrementing Horay! - Set of duta, Shoed in Consecutive. memory locations, beginning out a promed address I dellare arracy name & no. of data elembor.

(- operators, and. their frithmetic operation,
Logical negation.
Bituis e. Negotion.
gelegical AND
2 — Bitwise AND, address of variable or smuhre.
11 logical -OR
Bituise OR.
Bitwise XOR
+ Addh.
tt therefore.
- Sub
Decrement
mult, indirection (Pointer to Variable)
Division.
1/2 moduly
Cardificual equals.
-11 — not equals. [and thought dess than
1 de de de la companya de la company

Condital less than or equals, to
shift left.
Coudt. Creeaters than.
>= of shift right.
197 has heavy growt it
(- Compound Assingment. Statement Operatoris.
Dement open. And with assingued variable & Shore. And with assingued variable. Are desult in the assingued variable.
= OR with the assingment -11
N= XOR with The assingual var -11-
+= > Add to The assinguist Variable.
-= SOBTRACT from The oringment Vog.
*= WAS
/= Div
%= MoDULUS
10- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
>>=

(Backslash" Characteria.
17	-> Carriage return (CR)
1~	- Line feed (LF2)
\4.	form feed (FF)
<i>/P</i>	Barkspare (BS.)
\t,	- Harizontal tab (HT)
V V	Vertical trub (UT)
\a	- Alarmbell (BEY)
<u>\!</u>	Single quale (!)
\u	Double quote
//	Darkshach. (1)
\ddl	Octal Number
/20d	dd the sq. decinul Charact.

· following words Con't be used in Cappy so Judes! -
break Joto Cope Corpe Corpe Continue default return do Switch else for while.
C- operation order of operations.
()[]> Highest Expression. Evaluation
- ~ ! 6 * #
* / ·/. Multiplicative operaty.
+ - Additive. Operativa
(L. >>) Shifting, Operature
()= , >,>= Comp11-
= != -1: -1: -1:
1 1 1 1: Carditional execution
=, Q= = = = = = = = = = = = = = = = = =