Brogramming fundamentals. Explain the features of changing * Efficient and fort* Powerful abatatypes and library. *) Platform dependent language. *) modularity.

*) Middle language. s) Explaient various operaties in'c i) Arithmetic operator. An Arithmetic operator performs mathematical operators such as raddition, subtaction, multiplication, division de es: * 1+ -> Asithmetic apprector. This operator had to add and multiply 2 or more operandes Fa:2; 6=3: attoc | a+b=c [1-5] | 2+8=3

in Asignment operator: de assignment operator is com for ossigning a value to a variety .The most common operator is: *> Ff a=5; then c=aid (a of second of the *) If wasto, than ct sail C= C+9 in Relational operators. A relational sperator checks the relationship boluser two reperends. If the solution is true it returns thing the relation is falso, it returns valueio. *) Relational operators are used on decision making and logg 3.) in operator >==: I meanings of operator negul 5:= 3 is evaluated to 0,

(Logical operators An expression containing logical operators returns either our I depending upor whether expression sould true or falm & De -> logical AND-True only of all -sperands 1)! -> togical Not . They only if the operand FOR AND gate. If c=5 and d=2 ten condition (c==5) le & (d) 5) in equal For Not gate . 84. C=5 Han condittion (1C==5) equal too. 3 Write an algorithm and program to convert forbreakent to celcins and Colsius to fahrantiet 2=5/9(F,-32)

den 3- : c = (5 (F-32) Step 4 : Printe Program :.. # include Void maine) I float alices bahrenheit. Point of ("Inter temperation in fobrenheit="). Scant ("', f" & fabresheit); · Celsius = (fabranteit = -3) 49; Print = (1.2.+ fabrenheit = 1.2) Colsius, fahrenheit, celein subject; -Exter temperature in Fahrentit 205.00 fabronheit = 96.11 celsins Celusions to fabrantiel. Algorithm: Stepi- Start Step2: Poad C

\$6003. F= (((40)15)+32 State: Print F des: Hop & include (stdio.h) Void mais () & Fload celeius, fahrenheit, Print (" The temperation in assur); Scant (" .1.1", & coloius); forhankeit = ((celsies 19)/5)+32 Print f ("12. f coloi in - 1/2 fahrenheit" getch (o); Celsius Johnshit) output: Enter the temperature in colsius: 43 43:00 Celsius 5109.40. fedranhait write an algorithm and program to convert kilometre to metre and meterto bilomete. i) Algorithm: (19 topm) Stp2: Read the distance in Ailonotes Stp3: m= km 1000; Ath: Print equivalent distancion

Grs. Hopi # include estation Void main d : Lt fim, m; Prints ("Fiter the distance in Kilomateri"); Scarf (":1.d" & km); m= km\$1000; Print to the equivalent do dance meter is: 1. d. m1. Enter dictance in Allometer: is the equalent distance inmotes 13:15000 (B) A program to convert decimal to octal Gond print ASCII values la character using format specifies.

include 2 Adio. A Int main () d intrumber; Printf (" \n recimal value is: "); scoot ("/.d" & number). Printy ("/n octal value is = 11.0% output. Decimal value is 2517 odal value is 5007 Program to convert deimal to hescaderinal # include estations Noid main () int number; Prints (" Documed value is: 11); Scant ("I.d", I number); Printy (1/ h Hoscadeamal value in (Alphabet is small letter). Prints ("In Horadainal value" (Alphabet is capital letter). , (, x); numba).

pacinal value is: 2567 Horadecinal valuei Alghabet Small Letters): and. Hexodecimal value is (Alstabet. capital lotters): Ao7. A program to find alterage of "h" number; # include 28telio. W boid maine, of int n; count=1; floaty, average, sum=0; Printf (" How many numbers that you want to alaba ? ?!); Start (.../.d ", &n); while (count <b). Print) ("x=1)). Scant (" / f" / d x); Jun + = x. overage sambn;

output: How many numbers that you want to outer ?: X=3 X=4 the onerge is 2.0000000. note that it is but the

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