Programming Instructions o-injul-/read Q- output/assign/selinput/output (3) - perform of trafign f(y) - Conditionals of chain Variables (naming) memory buckets Data Types input output

Poffenn Cord Honals Problem sorve using in Structions

Programming (C+t) Language we will use to instruct
the computer translator

franslator / I s Binary
compiler Instructions um'iables a location in the viernovy alo C SHYLF variables naming rules—

(1) rook only consists of (letters, digits, _ (udwsore))

(2) start with a letter or _ (dxgit)

(5) ho Mais - include - namestaer - while can't be used as variables haves I int, cha any data (NC take as infut) () is stored in a bucket called variable reme datatype Data (ype) 4 x X x a decinal values in-egens (symbol, a-z, 4-2, 0.123, 2.241 0-9,1,0,4,8 - 6.19, --} /- / 2 /- - / flat (double) boolean Computers only understand/know (0,1) how will computed understand?

integers & natural was - 9,1,2,7,4,5,6, decimal system U convert-OBinary System

{1,10,11,100,101,110,---1, -2, -3, -9 21 \sim 9 0(00) \rightarrow 1011 \rightarrow (1109) -9Browy rep - complement (flip d's and l's) add t/ (int) represented in binary]:

Hoot/houble 63(45 x 10 int)

\$\frac{100}{100} = \frac{100}{100} = -0.8196 - -8196 X 18-9 451600000 4516 X 103 formula Charact WS Standard values (int) >> characters Cesing ASCIL values (0-1)7)

Boolcery Instructions (orders) Jase true -s read something (from input)

(from another variable)

To some variable Jassigh (giving some volue to - perform operations arillametric: (+, -, /, +, %) assign ment operator. boxical op: (22, 11, 1)

relational op. (==) != > < 7= <= (bit-1013e) -> Control Statements: Conditionals: if, else

Loops: for, while if (age is greature equal to 18) Block / print (Adult)) lhe (ofherwise) & B lock - 2 3 print (chila)

Control Statements Conditionals loops or notrepetitive morte doing something based on some condition Problems hion doing something again to
it I give you input if-else age of a proson (int) it XIn Com you tell me while Outfait Whether he she is an about or a child take injus-Vav

2) decide 3) outfant. dala topos operations? logic Spared decinox power Conditional Statements Hit rouns today, we will not play. Rains Today (fact) - true 3 not plans replace 7) p (cy

if (condition - true) {

do/this work; if (yours today) { else (false) {

do-fluis work }

at vn. As Syntax graman of CPP

Take as input marks of five subjects. Calculate the percentage and grade according to the given conditions:

If percentage < 40% : Grade F

If percentage >= 40% : Grade E If percentage >= 60% : Grade D 60-6a

If percentage >= 70% : Grade C

If percentage >= 80% : Grade B - 80 - 80

If percentage >= 90% : Grade A

if (p>= 60 && p <= 69) contec" D"; vill it work ?? 8 50 2. Print 1, 2, 3, 4, 6, 6. ~ Solve?! 1 xxxxx 41 11 41 41 41 will may salts Modifive work pattery

2 conting , Sport from where Program & 3 Evere we need a condition to stop the repetition Stop When you from L ruch O 1 clep counting while until you reach Start from 1,

end-condition vow to proceed?! -

While (i <= 10) { Q. Print odd numbers from

(i-it); int 1=1; whill i 2= (00/2) { 10/2 (2×(i) -1);

int [=1] while (i==100)} e. ¿f (i½2 ==1) i=(+1)

Mesting of loops: (i) - erm Conditionals + Loops Patterns. XXXXXX While ((<= N) { 50dy (= (+(

for (ini1; conq; upa) } for (int i=1; i <= n; i=i+1 ? {