EXPERIMENT NO.8

Ain: Write a program to implement Multipaus Mauroprocesso A multipan macroprocessor is a tool word in computer programming to procen source wide untaining marms. unuice single pars marroprocession unich processes marms in a single pars through the source vode, a multipais macroprocessos make multiple parses through the resource code to handle more complex maisso expansions + dependencies.

i] First Pan: In the first pan, the macroprocessor sians the source code roidentify textractinaino definition. Any non-marmo code les painted through unchanged: 2) sevond pan: On subsequent panses, the maiorprocessor goesthrough the source vode again replaining maero involation with their enpansions. They are rieplaned. 3] subsequent panes pepending on the complexity of marros & the noved for further until all macros ene enpanded + no changes and som alkand an error farming wegittered a Exiample: mon avisono, o de de poince as marros de finitions

DEFINE ADDE INDOM

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DEFINE DEFINE SQUARTE (X): MULKIX: · main code



wagnes 4 stanting a samply of our opens a story some ADD-TWOCKI); macro involation seguare (R2); main procarby most HALT 1910 of search of oprogramium A show and some of the bold with a prince of the Ant para ma cons single single pour manage Polentity macro definition es suit a symbolitable. ADD - Trub of mounz, xogistion o son som 4 SIQUAR Entirough XIXAporti render algistum were ciubles usclar espansions + quebungencie Record passis our many tactions of anon tacis is Replace macro invocation with their expansions, MAD D- TUDD CRIS ON MOUS, RIVER SOLLAND - SQUARE (R2) -> mul R2, R200000000 e) second para : To substant parie, The resimpores. Resultinger code à chas monde ny contratano real start is well consider a pages a fails files as a so was NOV- 2, Raining Expansion of ADD TWOLED multi Rouris Emparsion, of usignians (R2) HACI on Fred of program pands on a harmage she enjoyed i or thank multipan mamprocessor can handle more compley sienavios, such as recursive macro enondifional macro by performing additional panes as needed.

They are used in amerobly languages;

preprocess ors for higher, level languages + other content where macro one employed. 33

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