Asuta Handasmalani CIV-2103058 THADOMAL SHAHANI TSEC

EXPERIMENT NO. 7.

Maria write a program to implement Pocis 1 ioto MVIHI-Pars Assembles b) write a program to implement raw 2) of some Multi-pars Assembler about gongant gidonesse was the standard accuration Agy tant? Eddling Medry & who volto clay oan Paus 1 not multipan ausembleuis responsible for scanning the source code, building a symbol table 4 ansigning address es to labels. The symbolitable is contialitor mesolving symbolic references & calculating the addresses of instructions and data items in subsequent passes. 1) scan the éparce wde : Read the source vode line by line - Remove comment + whitespace nom each hin e 2) Identify labels: " uneck exich wine for the presence of labels. - of a line contains a label, record it's maine + current address 3) Generate symboliterble: - create a symbolitable so -Assign addresses ho labels based on their position in the source wide. Handle causes of duplicate (abels originvalid joured names, of Increment warron wounters printement the vocation vouritée portre a chabine en vountered oregardhers of whether it wontains label or not. The location worter represents the address of the pent instruction or doutantem. of Return 8400 bil tables After scanning the entire source vode, neturn the symbolitable generated during paint . The symbolitable win be used in subsequent panes for resolving

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6] Pars 2 of multi-pour assemble involves translating the assembly instruction into machine code using the symbol table generated in pain 1. Additionally; pars 2 performs verior diedoing & génerates the i) Bran the source code : Read the source code line by line 2) Prans'late instruction: ros each instruction encounteled, translate it into machine code. Replace symbolic operand with their warresponding address from the symboltable generated in pass 1. 3] Generate machine code: concatenate the translates madine code instruction into a single output file or data smuture. Ensureproper formatting t alignment of madure code instruction. nt enor meding: performenor mecking during transation, suit as detecting undefined symbols or invalid instruction. s) Returnautine code: Atten processing the contre source code, return the final machine code ofp. continuing the previous example, pars 2 of the arrendler using python. det pan2-anembler (source code, symbol-table): malline code = [] with open (source-unde, 's') as file: for line in file: line - line sput (';'/[D]. stripe] if not line: continue.





of pan a of multipan acceptation to a martine w the rain topens = line split () video in allo misono i chanstated in network i soday? with is is the start of the benself and a mode it hoten in symbol hable 100 in of start throthemson about the south instruction to the exception of the same of the contraction of the con manciate it into machine solo, Replace pois agreement of whanslasted in smithabits to kent ! i one malling jode appendit translatectionstruction. geturn machine-code. et accessate machine vale: "Vocatonate the pardais madie ade incontrain d'adagle pulpe The condition construction consider of the considering augo prent of madular wide incomedia. e) Kethanie ouvine ode: Atta parreving the copy some code a setum the time I madrine code plan antioving the problems example : 31:7. 1.7 x (11) - x ex sing - ling split (') Italian -: , ni) + 0,0 10 Bunitan.