

Assignment 2 , Devops .

Q. Write the execution of sample.c to a.out executable binary of c program ?

==> When we compile sample.c file it will generate some intermediate file these files in the system , that are

sample.c -> sample.i (Preprocessor Code)

sample.i -> sample.s (Assembly Code)

sample.s -> sample.o (Object Code)

sample.o -> a.out (Executable code)

basically for compiling sample.c file we use compiler which is in our system , that compiler run all the process , because of that

process sample.c file generate a.out file , In preprocessor step it will remove all comments instead of including header file it will

expand it. Also it will expand macros also.

In next step the compiler will convert preprocessed code into assembly language , like sample.i to sample.s the complete code will be

in assembly language. Then the same compiler will convert the assembly code in object code , like sample.s to sample.o , after that all the processes , Finally in last step our object code will create executable file with linking . that's how sample.c convert the a.out .