**Gaming Time**

**Game plan depend on pair of students plays against each other, each one of them will make a quiz for his opponent (from internet, his mind, book … etc), he will put this into C code and compile this C code and gave the O file to his opponent via email with CC to challenge owner with a time penalty for being late, after that each student should** **work on makefile to build the entire project to get the quiz and send me the answer with all required deliverables.**

**Note** : Each student must send challenge owner an individual email for the answer for the quiz

**Note** : The deliverables will be uploaded to GitHub account and a repo link will be sent at the end that will have all the requirements.

**Note** : The function name you will make is provided in file name code.h with its prototype.

**Note :** I will send you the entire project except the obj file which is required to be done by you.

**Technical Challenge Requirements**

**Req ID 1: Your C project must be distributed into 3 main folders (Src, Inc, Dependencies).**

**Req ID 2:Your entire work must be on an online repo and local repo, that must be synced together with repo name “makefile”.**

**Req ID 3:All your work must be done at development branch and when you finish it must be merged to master.**

**Req ID4:The makefile have the below requirements:**

**Req ID 4-0:Compile the project successfully.**

**Req ID 4-1:Generic for any project**

**Req ID 4-2:Should detect any change in inc or src files(.c )**

**Req ID 4-3:Should only compile the changed and affected files**

**Req ID 4-4:Must have a rule for compiling and one for linking**

**Req ID 4-5:Must have a rule for cleaning all dep file**

**Req ID5: All you other documents including (answer for the quiz and screen shots for git commands you used) should be on another branch called documentation and when finish this branch should be merged into the master branch.**

**Challenging Bonus Requirement: make your makefile able to sense the change in .h files which is very important issue.**

**Deliveries**

1. **Makefile and will be tested through.**

* **Running it normally.**
* **Change in src.**
* **Compile project successfully.**

**2. Screenshots for the git-bash used for git.**

**3. Remote repo and local repo which are linked together.**

**4. Commits, comments on the development branch and documentation branch.**

**5. The answer for the quiz.**