

1. BIN content

All programs (keygen, preprocess, authorize and recover) are pre compiled on an intel based mac pro and placed in \project_dir\bin

```
→ proj2 git:(master) X l
total 40
drwxr-xr-x  12 ahmed  staff   408B Dec  1 22:15 .
drwxr-xr-x   9 ahmed  staff   306B Dec  1 22:16 ..
-rw-r--r--   1 ahmed  staff    6.0K Dec  1 20:56 .DS_Store
drwxr-xr-x  15 ahmed  staff   510B Dec  2 16:00 .git
drwxr-xr-x   7 ahmed  staff   238B Dec  1 20:56 authorize
drwxr-xr-x  18 ahmed  staff   612B Dec  2 15:51 bin
-rw-r--r--   1 ahmed  staff    45B Dec  1 20:56 file.txt
-rw-r--r--   1 ahmed  staff    10B Dec  1 20:56 filename.txt
-rw-r--r--   1 ahmed  staff    32B Dec  1 23:44 key.txt
drwxr-xr-x   7 ahmed  staff   238B Dec  1 20:56 keygen
drwxr-xr-x   7 ahmed  staff   238B Dec  1 20:56 preprocess
drwxr-xr-x   7 ahmed  staff   238B Dec  1 20:56 recover
```

Project Dir

```
→ bin git:(master) X l
total 14304
drwxr-xr-x   9 ahmed  staff   306B Dec  2 16:01 .
drwxr-xr-x  12 ahmed  staff   408B Dec  1 22:15 ..
-rwxr-xr-x   1 ahmed  staff  1.7M Dec  1 22:11 authorize
-rw-r--r--   1 ahmed  staff    45B Dec  1 22:02 file.txt
-rw-r--r--   1 ahmed  staff    10B Dec  1 22:02 filename.txt
-rw-r--r--   1 ahmed  staff    32B Dec  1 22:13 key.txt
-rwxr-xr-x   1 ahmed  staff  1.7M Dec  1 22:07 keygen
-rwxr-xr-x   1 ahmed  staff  1.7M Dec  1 22:08 preprocess
-rwxr-xr-x   1 ahmed  staff  1.7M Dec  1 22:12 recover
```

bin dir

To run remove key.txt

\$rm key.txt

then

run keygen

```
-rwxr-xr-x   1 ahmed  staff    1.
→ bin git:(master) X ./keygen
KEY GENERATED:
```

run preprocess

```
→ bin git:(master) X ./preprocess key.txt file.txt filename.txt
ENCRYPTED !!!!
```

run authorize

```
ENCRYPTED !!!!  
→ bin git:(master) X ./authorize key.txt filename.txt  
AUTHORIZED !!  
→ bin git:(master) X
```

run recover

```
AUTHORIZED !!  
→ bin git:(master) X ./recover efile.txt efilename.txt fkey.txt  
RECOVERED !!!  
→ bin git:(master) X
```

bin content after complete cycle

```
RECOVERED !!!  
→ bin git:(master) X l  
total 14344  
drwxr-xr-x 14 ahmed staff 476B Dec 2 16:05 .  
drwxr-xr-x 12 ahmed staff 408B Dec 1 22:15 ..  
-rwxr-xr-x 1 ahmed staff 1.7M Dec 1 22:11 authorize  
-rw-r--r-- 1 ahmed staff 128B Dec 2 16:04 efile.txt  
-rw-r--r-- 1 ahmed staff 20B Dec 2 16:04 efilename.txt  
-rw-r--r-- 1 ahmed staff 45B Dec 1 22:02 file.txt  
-rw-r--r-- 1 ahmed staff 10B Dec 1 22:02 filename.txt  
-rw-r--r-- 1 ahmed staff 64B Dec 2 16:05 fkey.txt  
-rw-r--r-- 1 ahmed staff 32B Dec 2 16:03 key.txt  
-rwxr-xr-x 1 ahmed staff 1.7M Dec 1 22:07 keygen  
-rwxr-xr-x 1 ahmed staff 1.7M Dec 1 22:08 preprocess  
-rwxr-xr-x 1 ahmed staff 1.7M Dec 1 22:12 recover  
-rw-r--r-- 1 ahmed staff 45B Dec 2 16:05 sfile.txt  
-rw-r--r-- 1 ahmed staff 20B Dec 2 16:05 sfilename.txt  
→ bin git:(master) X
```

diff on file and sfile

```
-rw-r--r-- 1 ahmed staff 20B Dec 2 16:05 sfile.txt  
→ bin git:(master) X diff file.txt sfile.txt  
→ bin git:(master) X █
```

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Requirements to run code in debug mode

1- xcode

2- project directory setup

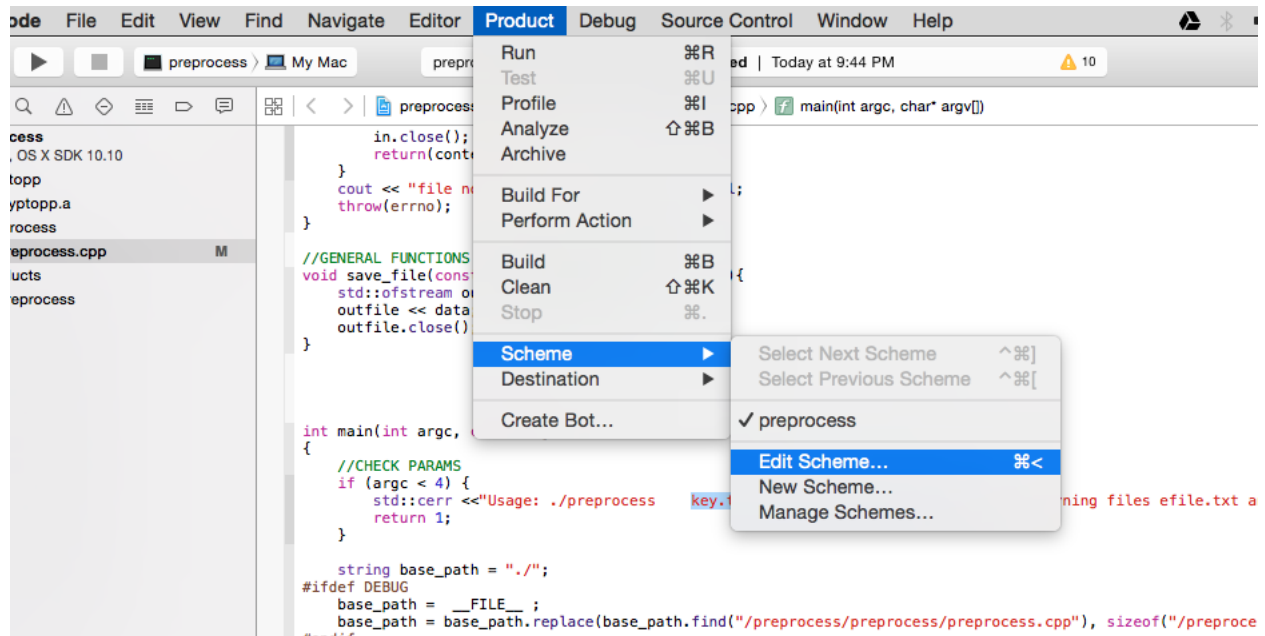
structure should be

project

- file.txt
- filename.txt
- keygen/
- preprocess/
- authorize/
- recover/
- bin/

to run in xcode you need to set up run variables.

Open project > product > scheme > edit scheme



then add variables

