OPEN SOURCE SOFWARES

PROJECT 1 PHASE 1

create_simple_fs.c

```
#include <stdio.h>
 #include <string.h>
 #define REGFILE 0
 #define DIR 1
 #define DATABLOCKSIZE 512
 #define DIRENTRYSIZE 32
 #define NUMOFINODES 32
 struct sb{
     int inode_bitmap;
      int data_bitmap[10];
 struct inode{
      int type;
      int size;
      int datablocks[10];
 struct dir_entry{
      char name[28];
      int inode_num;
 int main(){
   FILE *fout = fopen("simplefs.bin", "w");
      struct sb super_block;
      super_block.inode_bitmap = 1;
      int i=0;
while(i<10)
      super_block.data_bitmap[i] = 0;
   super_block.data_bitmap[0] = 1;
   fwrite(&super_block, sizeof(super_block),1,fout);
   struct inode slash;
   slash.type = DIR;
   slash.size = DIRENTRYSIZE * 2;
   slash.datablocks[0] = 0;
   fwrite(&slash, sizeof(slash), 1, fout);
   struct dir_entry dot;
   strcpy(dot.name, ".");
   dot.inode_num = 0;
   struct dir_entry dotdot;
   strcpy(dotdot.name, "..");
   dotdot.inode_num = 0;
     fseek(fout, sizeof(super_block)+NUMOFINODES*sizeof(struct inode) ,SEEK_SET);
   fwrite(&dot,sizeof(dot),1,fout);
   fwrite(&dotdot, sizeof(dotdot),1,fout);
   fflush(fout);
   system("pause");
   return 0;
```

#tester.h

The Output Of the Program

```
C\Users\Zafer Ertas\Desktop\\eni klas÷r (2\\tester.exe — X

- type: -1
- size: -1
- datablocks[0]: 56Press any key to continue . . . ■
```