PHI-CS-73 TN04CS810

TASK 2 - Understanding Design Patterns in C

```
matrix.h
#ifndef MAT
#define MAT
#define DELETED 2
#define MATRIX_NOT_FOUND 3
typedef struct _matrix *matrix_t;
matrix_t *matrix_create(int n_i, int n_j, int* result); // for creating a new matrix
void matrix_del(matrix_t* matrix); // deleting the matrix
#endif
matrix.c
#include<stdio.h>
#include "matrix.h"
#include<errno.h>
extern int errno;
typdef struct _matrix{
       int i,j; //rows and columns
       float *value; // data
};
```

```
void matrix_del(matrix_t* matrix);
{
      if (matrix == NULL)
      {
           return MATRIX_NOT_FOUND;
      }
      else{
           free(matrix->value);
           free(matrix);
           return DELETE;
      }
}
```