PHI-CS-73 TN04CS810

TASK 2 - Understanding Design Patterns in C

```
matrix.h
#ifndef MAT
#define MAT
typdef struct matrix{
       int i,j //rows and columns
       float *value; //
};
matrix *matrix_create(int n_i, int n_j);
void matrix_read(struct matrix *m);
void matrix_del(struct matrix *m);
#endif
matrix.c
#include<stdio.h>
#include<matrix.h>
matrix *matrix_create(int n_i, int n_j);
{
       struct matrix *matrix = malloc(sizeof(matrix))
       matrix->i=n_i;
       matrix->j=n_j;
       matrix->value = malloc( i * j * sizeof(float*)):
       return matrix
}
void matrix read(matrix* matrix) {
  for(int a = 0; a < matrix->i; a++) {
     printf("%f", "\n");
     for(int b = 0; b < matrix -> i; b++) {
        printf("%f\t", matrix->value[a][b]);
     }
  }
void matrix_del(matrix* matrix)
       free(matrix->value)
       free(matrix)
}
```