**Lab Assignment 6**

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**Problem Statement**

**Kindly upload OS phase 1 code which load program card in external main memory Block B0 or Block B0 B1**

#include<iostream>

#include<vector>

#include<fstream>

#include <string>

#include<bits/stdc++.h>

using namespace std;

#define ROW 100

#define COL 4

// char memory[100][4];

vector<vector<string>> Memory(ROW, vector<string>(COL,"-"));

int c;

vector<string> R(4);

vector<string> IR(4);

// IR [1, 2]: Bytes 1, 2 of IR/Operation Code

// IR [3, 4]: Bytes 3, 4 of IR/Operand Address

int IC {0};

bool C {false};

int SI=1;

vector<string> words {};

string line;

int IC1;

void READ(int);

void LOAD();

void printM(vector<vector<char>>&);

void LOAD(){

ifstream fin;

fin.open("input.txt");

int temp=0;

string s;

bool flag = false;

int count=0;

while(fin){

getline(fin, line);

int c=0;

if(line[0]=='$'){

count++;

continue;

}

else if(count==1){

int wordLen = line.length();

for(int j=0;j<ROW;j++){

for(int k=0;k<COL;k++){

if(c < wordLen){

Memory[j][k]=line[c++];

// c++;

}

else

{

flag = true;

break;

}

}

IC++;

if(flag==true)

{

break;

}

}

}

}

fin.close();

}

void printM(vector<vector<string>> &M){

int cnt = 0;

int block = 0;

for(int i=0; i<ROW; i++)

{

if(cnt==10 || cnt == 0)

{

cout<<"\nBlock "<< block <<endl;

block++;

cnt=0;

}

cout<<i<<" => ";

for(int j=0; j<COL; j++)

{

cout<<M.at(i).at(j)<<" ";

}

cnt++;

cout<<endl;

}

}

int main(){

ofstream fout;

fout.open("output.txt");

fout<<"";

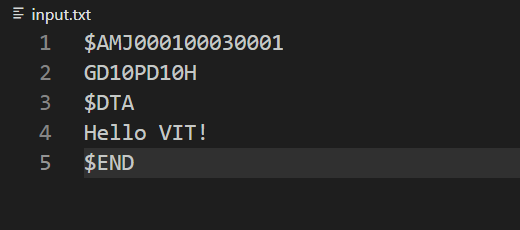
fout.close();

LOAD();

printM(Memory);

}

**Input.txt file:**

****

Output:

