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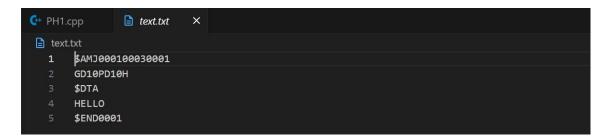
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OS Lab Assignment 7

Q. Write a program to Load job in external memory. Assume size of external memory is 100 by 4 and starting address of program is 00.

```
char R[4], IR[4];
     int C, IC;
char M[100][4];
     FILE *inputFile, *outputFile;
10 void init(char *buffer) {
        void init(char *buffer) {
    memset(R, '*', sizeof(R));
    memset(IR, '*', sizeof(IR));
    C = (int) '*';
    IC = -1;
    memset(buffer, '*', 40);
    for (int i = 0; i < 100; i++) {
        memset(M[i], '*', sizeof(M[i]));
    }
}</pre>
       void writeDataToFile() {
          outputFile = fopen("output.txt", "w");
          if (!outputFile) {
            for (int i = 10; i < 100; i++) {
    if (strncmp(M[i], "****", 4) != 0) {
        fprintf(outputFile, "%.4s", M[i]);
}</pre>
           fprintf(outputFile, "\n");
           fclose(outputFile);
       int main() {
         inputFile = fopen("text.txt", "r");
              printf("File not found\n");
           char buffer[40];
            int dataStart = 10;
           while (fgets(buffer, sizeof(buffer), inputFile)) {
              if (strncmp(buffer, "$AMJ", 4) == 0) {
                       init(buffer);
                 } else if (strncmp(buffer, "$DTA", 4) == 0) {
                   if (fgets(buffer, sizeof(buffer), inputFile)) {
                        int len = strlen(buffer);
if (buffer[len - 1] == '\n') buffer[len - 1] = '\0';
for (int i = 0, j = 0; i < len; i += 4, j++) {
    strncpy(M[dataStart + j], &buffer[i], 4);</pre>
                 } else if (strncmp(buffer, "$END", 4) == 0) {
                       for (int i = 0; i < strlen(buffer); i += 4, row++) {</pre>
                             strncpy(M[row], &buffer[i], 4);
```



## Output:

