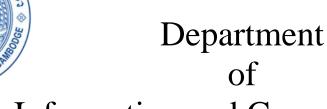
Institute of Technology of Cambodia



Information and Communication Engineering (GIC)

Assignment9
Lab09 (function and file)

Lecturer : Bou Channa

Subject : Algorithms and Programming (TP)

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Group : GIC-A

2020~2021

```
1 70. C programming-Lab09 (function and file).c 🗶 71. C programming-Lab09 (function and file).c 🗶 72. C programming-Lab09 (function and file).c 🗶
            #include<stdio.h>
      2
            void storeDataInFile(char filename[]);
          main(){
      3
      4
                 char problem[30];
      5
                 printf("please Enter a file name(Example.txt): ");
      6
                 scanf("%s", &problem);
      7
                 storeDataInFile (problem);
      8
      9
          void storeDataInFile(char filename[]){
     10
                 FILE *f;
     11
                 int n=2020;
     12
                 f=fopen(filename, "w");
     13
                 for(int i=1;i<=n;i++) {
                     fprintf(f, "%d\t", i);
     14
     15
                     if(i%10==0){
                          fprintf(f, "\n");
     16
     17
     18
                               "D:\school\Year3\2. Algorithm & Programming (S1)\TP\70. C programming-Lab09 (function and file).exe
     19
                 fclose(f);
                              20
            }
     21
                              Process returned 0 (0x0)
                                                            execution time : 12.032 s
                              Press any key to continue.
<
1 70. C programming-Lab09 (function and file).c × 71. C programming-Lab09 (function and file).c × 72. C programming-Lab09 (function and file).c ×
      1
            #include<stdio.h>
      2
            int sumDataInFile(char filename[]);
```

```
3
         main(){
     4
                char filename[30];
     5
                printf("Please Enter a file name(Example.txt): ");
     6
                scanf("%s", &filename);
     7
                sumDataInFile(filename);
     8
     9
          int sumDataInFile(char filename[]) {
                FILE *f;
    10
                int n, sum;
    11
    12
                f=fopen(filename, "r");
    13
                while (fscanf (f, "%d", &n) !=EOF) {
    14
                     printf("%d\t",n);
    15
                     if(n%10==0){
    16
                         printf("\n");
    17
    18
                     sum=sum+n:
    19
    20
                fclose(f);
    21
                printf("The summation of file %s equal to %d", filename, sum);
    22
                return sum:
                              "D:\school\Year3\2. Algorithm & Programming (S1)\TP\71. C programming-Lab09 (function and file).exe
    23
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                                                                                    2017
                                                                                             2018
                                                                                                      2019
                                                                                                               2020
                              The summation of file output-p1.txt equal to 2041210
                              Process returned 0 (0x0)
                                                            execution time : 12.767 s
                              Press any key to continue.
<
```

```
🛂 70. C programming-Lab09 (function and file).c 🗶 71. C programming-Lab09 (function and file).c 🗶 72. C programming-Lab09 (function and file).c 🗶
          1
                      #include<stdio.h>
                                                                                                         "D:\school\Year3\2. Algorithm & Programming (S1)\TP\72. C programmin
          2
                      #include<time.h>
                                                                                                        Enter student ID: 111
          3
                                                                                                        Enter student name: leap
          4
                      void getNstoreDataToFile();
                                                                                                        Enter student phone number: 010183221
          5
                  main() {
          6
                              getNstoreDataToFile();
                                                                                                        Enter student ID: 122
          7
                                                                                                        Enter student name: nha
          8
                  void getNstoreDataToFile(){
                                                                                                       Enter student phone number: 098977886
          9
                              int id[6],n;
         10
                              char name[6][30],tel[6][15];
                                                                                                       Enter student ID: 133
         11
                              srand(time(0));
                                                                                                        Enter student name: mutita
         12
                              int min=3, max=4;
                                                                                                       Enter student phone number: 012664723
        13
                              n=rand()%max+min;
         14
                              FILE *f;
                                                                                                        Enter student ID: 144
                              f=fopen("output-p3.txt", "w");
                                                                                                       Enter student name: kanhchakna
         15
                                                                                                        Enter student phone number: 0963242312
         16
                              for(int i=0;i<=n;i++) {
                                      printf("Enter student ID: ");
         17
                                                                                                       Enter student ID: 155
         18
                                      scanf("%d", &id[i]);
                                                                                                       Enter student name: kha
         19
                                      fprintf(f, "%d", id[i]);
                                                                                                       Enter student phone number: 090565455
         20
                                      printf("Enter student name: ");
         21
                                      scanf("%s", &name[i]);
         22
                                      fprintf(f, "\t%s", name[i]);
         23
                                     printf("Enter student phone number: ");
                                      scanf("%s",&tel[i]);
        24
                                      fprintf(f, "\t\t%s", tel[i]);
         25
                                      fprintf(f, "\n");
         26
         27
                                      printf("\n");
         28
         29
                              fclose(f);
         30
         31
 <
🛂 71. C programming-Lab09 (function and file).c 🗶 72. C programming-Lab09 (function and file).c 🗶 73. C rpogramming-Lab09 (function and file).c 🗶
                       #include<stdio.h>
                                                                                           "D:\school\Year3\2. Algorithm & Programming (S1)\TP\73. C rpogramming-Lab09 (function of the control of the 
          2
                      void getDataAndProcess();
                                                                                         111
                                                                                                         leap
                                                                                                                                        010183221
                  main(){
          3
                                                                                         122
                                                                                                        nha
                                                                                                                                        098977886
           4
                              getDataAndProcess();
                                                                                                                                        012664723
                                                                                         133
                                                                                                        mutita
           5
                                                                                         144
                                                                                                        kanhchakna
                                                                                                                                                        0963242312
           6
                  void getDataAndProcess() {
                                                                                         155
                                                                                                                                        090565455
                                                                                                        kha
          7
                              int id[7], i=0;
                                                                                         Enter student ID: 166
          8
                              char name[7][30],tel[7][15];
                                                                                        Enter student name: chea
          9
                                                                                         Enter student phone number: 092213123
                              f=fopen("output-p3.txt", "r");
         10
         11
                              while (fscanf (f, "%d %s %s", &id[i], &name[i], &tel[i]) !=EOF) {
         12
                                      printf("%d",id[i]);
                                      printf("\t%s", name[i]);
         13
         14
                                      printf("\t\t%s", tel[i]);
         15
                                      printf("\n");
         16
                                      1++;
         17
         18
                              fclose(f):
                              printf("Enter student ID: "); scanf("%d",&id[i]);
         19
                              printf("Enter student name: "); scanf("%s",&name[i]);
         20
                              printf("Enter student phone number: "); scanf("%s", &tel[i]);
         21
         22
                              f=fopen("output-p3.txt", "w");
         23
                              for(int j=0;j<=i;j++) {
         24
                                      fprintf(f, "%d", id[j]);
         25
                                      fprintf(f, "\t%s", name[j]);
                                      fprintf(f, "\t\t%s", tel[j]);
         26
         27
                                      fprintf(f, "\n");
         28
         29
                              fclose(f);
         30
         31
```

```
Start here X 72. C programming-Lab09 (function and file).c X 73. C rpogramming-Lab09 (function and file).c X 74. C programming-Lab09 (function and file).c X
     1
            #include<stdio.h>
            void generateDummyData();
     2
          main(){
     3
                generateDummyData();
     5
          ─void generateDummyData(){
     6
     7
                int min=1, max=51;
                FILE *f[1000];
     8
         9
                for (int i=0;i<1000;i++) {
    10
                    char filename[20];
                    sprintf(filename, "data%d.txt",i+1);
    11
                    f[i]=fopen(filename,"w");
    12
          13
                    for(int j=min;j<max;j++){</pre>
    14
                         fprintf(f[i],"%d ",j);
    15
    16
                   min=max;
    17
                   max=max+50;
                                          "D:\school\Year3\2. Algorithm & Programming (S1)\TP\74. C\74. C programming-Lab09 (function and file).ex
    18
           }
    19
                                         Process returned 0 (0x0) execution time : 3.857 s
    20
                                         Press any key to continue.
```