Angid 1)

```
#include<stdio.h>
                                                       C:\Users\Idava\OneDrive\Desktop\Iab15\angid1.exe
#include<stdlib.h>
                                                      Amjilttai
int main(){
    int num_1, num_2;
    FILE *fptr;
                                                      Process exited after 0.391 seconds with return value 0
    if ((fptr = fopen("1-input.txt", "r")) == NULL){
                                                      Press any key to continue . . . _
       printf("Error");
      exit(1);
 fscanf(fptr, "%d", &num_1);
 fscanf(fptr, "%d", &num_2);
 if((fptr = fopen("1-output.txt", "w")) == NULL)
  printf("Error");
  exit(1);
 fprintf(fptr, "%d", num_1 + num_2);
 printf("Amjilttai");
  fclose(fptr);
  return 0;
```

C:\Users\Idava\OneDrive\Desktop\lab15\angid2.exe #include<stdlib.h> 3 int *get_array(int n, int value){ n = 4int *p; 2) p = (int*) malloc(sizeof(int) * n); 5 6 if (p == NULL){ 101 printf("Error\n"); 101 8 exit(1); 9 10 int i; 11 🖃 $for(i = 0; i < n; i++){$ Process exited after 1.873 seconds with return value 0 12 p[i] = value; Press any key to continue . . . 13 14 return p; 15 L } 16 🖃 int main(){ 17 int *a, i, n; 18 printf("n = "); scanf("%d", &n); 19 20 $a = get_array(n, 101);$ 21 🖨 for (int i = 0; i < n; ++i){ printf("%d\n", a[i]); 23 24 free(a); 25 return 0;

#include<stdio.h>

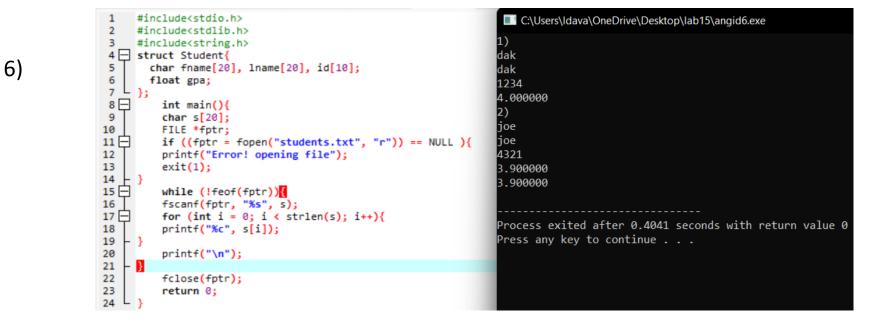
26 L

```
3)
```

```
1 #include<stdio.h>
                                                      C:\Users\Idava\OneDrive\Desktop\Iab15\angid3.exe
2 #include<stdlib.h>
      int *find_divisors(int n)
4 <del>|</del> <del>[</del> [
          int *p;
          p = (int*) malloc(sizeof(int) * n);
          if (p == NULL){
            printf("Error\n");
 8
9
            exit(1);
10
11
          int i, c = 0, arr = 1;
12 <del>|</del>
13 <del>|</del>
         for (i = 1; i \le n; ++i){
          if (n \% i == 0){
          p[arr] = i;
14
15
          C++;
16
          arr++;
17
                                                      Process exited after 2.084 seconds with return value 0
18
                                                     Press any key to continue . . . _
19
          p[0] = c;
20
          return p;
21
22
        int main()
23 🖵 {
24
         int *a, i;
25
         int n;
26
         printf("n = ");
         scanf("%d", &n);
         a = find_divisors(n);
28
         for (int i = 1; i <= a[0]; ++i){
29 🗐
30
          printf("%d\n", a[i]);
31 - }
32
         free(a);
33
         return 0;
```

```
#include<stdio.h>
                                                                       C:\Users\Idava\OneDrive\Desktop\Iab15\angid4.exe
                  #include<stdlib.h>
                                                                       niilber = : 62
             3
                 int main()
             4 🖵 {
4)
             5
                     FILE *fptr;
                                                                       Process exited after 0.4349 seconds with return value 0
                     if ((fptr = fopen("4-input.txt", "r")) == NULL){
                                                                       Press any key to continue . . .
                     printf("Error");
             8
                     exit(1);
             9
            10
                     int sum, i;
            11
                     bool check = false;
            12
                     while (!feof(fptr)){
            13
                     fscanf(fptr, "%d", &i);
            14
                     if (check)
            15
                     sum += i;
            16
                     check = true;
            17 | }
            18
                      printf("niilber = : %d", sum);
            19 L
```

```
3 ☐ struct Student{
                                                                               C:\Users\Idava\OneDrive\Desktop\Iab15\angid5.exe
                          char fname[20], lname[20], id[10];
                                                                              Heden shirheg oyutan burtgeh be:2
                          float gpa;
                     6 L };
5)
                     7 🖵
                              int main(){
                                                                              fname: dak
                     8
                              int n;
                                                                              lname: dak
                     9
                              printf("Heden shirheg oyutan burtgeh be:");
                                                                              id: 1234
                     10
                              scanf("%d", &n);
                                                                              gpa: 4
                    11
                              FILE *fptr:
                              if ((fptr = fopen("students.txt", "w")) == NULL) 2)
                    12 🚍
                    13
                              printf("Error! opening file");
                                                                              fname: joe
                    14
                              exit(1);
                                                                              lname: joe
                    15 -
                                                                              id: 4321
                    16 🗀
                              for (int i = 1; i <= n; i++) {
                                                                              gpa: 3.9
                    17
                              Student s;
                                                                              Amjilttai burtgelee
                     18
                              printf("%d)\n", i);
                    19
                              printf("fname: ");
                                                                              Process exited after 18.45 seconds with return value 0
                     20
                              scanf("%s", s.fname);
                    21
                              printf("lname: ");
                                                                              Press any key to continue \dots
                    22
                              scanf("%s", s.lname);
                    23
                              printf("id: ");
                     24
                              scanf("%s", s.id);
                     25
                              printf("gpa: ");
                    26
                              scanf("%f", &s.gpa);
                     27
                              fprintf(fptr, "%d)\n", i);
                    28
                              fprintf(fptr, "%s\n", s.fname);
                    29
                              fprintf(fptr, "%s\n", s.lname);
                     30
                              fprintf(fptr, "%s\n", s.id);
                     31
                              fprintf(fptr, "%f\n", s.gpa);
                    32 - }
                     33
                              printf("Amjilttai burtgelee");
                     34
                              fclose(fptr);
```



Gert 1)

```
gert1.cpp
     #include<stdlib.h>
                                                    C:\Users\Idava\OneDrive\Documents\c hel\gert1.exe
 3  int *get_array_from_file( char fname[]) {
    FILE *fp;
                                                   11 1 2 1 3 1 3 1 2 3 1 4
     char c;
    int *p,n,i;
                                                   Process exited after 0.7437 seconds with return value 0
     n=0;
    fp=fopen(fname, "r");
                                                   Press any key to continue . . .
 9  while((c=fgetc(fp))!= EOF){
10 - if(c>=47 && c<=58){
11 n=n+1;
12 - }
13 else{
14
     continue;
15 - } }
16
    fclose(fp);
17
     fp=fopen(fname, "r");
18
19
     p= (int*) malloc(n * sizeof(int));
20
     p[0]=n;
21 - while((c=fgetc(fp))!= EOF){ {
22 - if(c>47 && c<58){
23
     p[i]=c-48;
24
     i=i+1;
25
26
27
28
     fclose(fp);
     return p;
29
30
31 | int main(){
     const char filename[]="integer.txt";
32
33
     int *n,b,i;
     n=get_array_from_file( "integer.txt");
35
     b=n[0];
     for (i = 0; i <= b; i++)
     printf ("%d ",n[i]);
38
     return 0;
39 L
```

Gert 2)

```
#include<stdio.ho
         #include<stdlib.h>
         #include<string.ho
        struct Student(
             char fname[28], lname[28], id[18];
             float gpa:
         typedef struct Student Student;
            void read(Student a[], int n){
            for(int i=0; i<n; i++){
11
            printf("fname: ");
12
             scanf("%s", a[i].fname);
13
             printf("lname: ");
14
             scanf("%s", a[i].lname);
15
            printf("id: ");
            scanf("%s", a[i].id);
16
17
             printf("gpa: ");
18
             scanf("%f", &a[1].gpa);
19
20
21
22
23
24
25
            void print(Student a[], int n){
            for(int i=0; icn; i++){
            printf("%s\n", a[i].fname);
26
            printf("%s\n", a[i].lname);
27
             printf("%s\n", a[i].id);
28
29
38
             printf("%.1f\n", a[i].gpa);
            void student write(Student a[], int n, char fname[])[
             fp=fopen("fname.dat", "w");
             if(fp==NULL){
                printf("%s file-iig ongoilgoh bolomjgui", fname);
37
                exit(1);
38 39
             for(int i=0; i<n; i++){
49
             fprintf(fp, "%s\n", a[i].fname);
41
            fprintf(fp, "%s\n", a[i].lname);
42
             fprintf(fp, "%s\n", a[i].id);
43
             fprintf(fp, "%.1f\n", a[i].gpa);
44
47
            int student_read(Student a[], char fname[]){
48
49
            fwrite(a, sizeof(struct Student), 20, fp);
58
            int *s. x=0.1=0:
51 .
            fp=fopen("fname.dat", "r");
52
            if(fp==NULL){
53
                printf("%s file-iig ongoilgoh bolomjgui", fname);
54
                exit(1):
55
           while(!feof(fp)){
             fscanf(fp, "%s\n", a[i].fname);
58
             fscanf(fp, "%s\n", a[i].lname);
             fscanf(fp, "%s\n", a[i].id);
59
69
             fscanf(fp, "%.1f\n", a[i].gpa);
```

```
C:\Users\Idava\OneDrive\Documents\c hel\gert1.exe

1
fname: Dak
lname: Joe
id: 123
gpa: 4
Dak
Joe
123
4.0
```