

Binary files

hi.exe

Disadvantages of text files:-

- 1- Processing time
- 2- Precision Problem
(تقريب) في float (3)
- 3- takes space

Advantages: readable by humans

Disadvantages of Binary files:-

- 1- Not readable
- 2- different between systems

Note: to check if you're file exists or not:-

```
FILE *in;
in = fopen("data.txt", "r");
if (in == NULL)
{
    printf("file does not exist");
    exit(0);
}
```

Note:- You use a loop to keep asking for files:-

```
FILE *in;
char filename[10];
printf("Enter filename");
for (scanf("%s", filename);
     in = fopen(filename, "r")
     == NULL;
     scanf("%s", filename));
    // The change
    printf("cannot open file");
    printf("Re enter");
```

char & int و float و Binary files (3)
 decimal و التقريب في float

How to open a Binary file?

int x=7, y; float a=3.5, b;

```
FILE *in;
in = fopen("data.bin", "rb");
```

القراءة

```
fread ( &sy, sizeof(int), 1, out );
fread ( &sb, sizeof(float), 1, out );
```

read Binary

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Example

```
int x=7, y; float a=3.5, b;
```

ب في ا و في x و في y

```
FILE *out;  
out = fopen("data.bin", "wb");  
fwrite(&x, sizeof(int), 1, out);  
fwrite(&a, sizeof(float), 1, out);  
fclose(out);
```

```
out = fopen("data.bin", "rb");  
fread(&y, sizeof(int), 1, out);  
fread(&b, sizeof(float), 1, out);
```

→ = 2
→ = 4

```
printf("x=%d, b=%f", x, b);
```

It Prints :-

x=7, b=3.50

Note:

char → 4 bytes
int → 2 bytes

Note:

It goes back to column 1 of current output line

to define the size
of the parameter

Notes :-

output
files

`fwrite (Sy - sizeof (), 1,)`

number of parameters
to copy

name of file

The address
of the first memory cell whose content
is about to be copied to the file

input

`fread (Sa`

The same thing But

Sa is the address of the first memory cell
whose content is about to be read from
the file

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