Institute of Science and Technology

Computer Science 2



2023/2024

PW04: C Files

Exercise 01:

Write a C program that generates a C file and include the following: I created the first C file in my life.

Solution

```
#include <stdio.h>
int main()
{
    FILE *fptr;
    fptr=fopen("file1.txt", "w");
    fprintf(fptr, " I created the first C file in my life.");
    fclose(fptr);
    return 0;
}
```

Exercise 02:

Write a C program that will read the C file generated in the previous exercise.

Solution

```
#include <stdio.h>
#include <stdib.h>

int main()
{
    FILE *fptr;
    fptr=fopen("file1.txt", "r");
    if(fptr == NULL)
    {
        printf("unable to open");
    }
    else
    {
        char st[100];
        fgets(st, 100, fptr);
        printf("%s", st);
    }

    fclose(fptr);
    return 0;}
```

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Exercise 03:

Write a C program that uses a function of your choice, which is defined in a header file.

Solution

We choice a function that gives the odd numbers from 0 to a. The function definition is done in a header file which is saved as **hfile1.h**. To use this file in a C main program, we should open another file by this name for example **prCfile.c** and in this file we will include the header file as follows:

Program in the header file	C main program	Output
hfile1.h	prCfile.c	
#include <stdio.h></stdio.h>	#include <stdio.h></stdio.h>	odd numbers from 1to10:
void odd(int a)	#include "hfile1.h"	1
{	int main()	3
int i;	{	5
for(i=0;i<=a;i++)	int b=10;	7
{	<pre>printf("odd numbers from 1to%d:\n", b);</pre>	9
if(i%2!=0)	odd(b);	
{	return 0;	
printf(" $%d\n$ ", i);	}	
}		
}		
}		