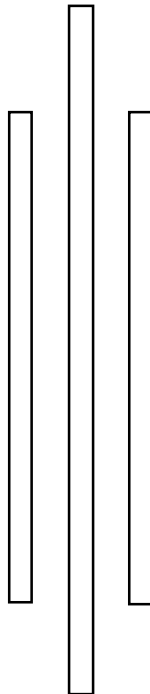# TRIBHUVAN UNIVERSITY

INSTITUTE OF ENGINEERING

Lab Sheet #10

PURWANCHAL CAMPUS

DHARAN-8

Submitted by:

Name: **Arbind Kumar Mehta**

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Faculty: BCT

Group: I/I 'A'

Date: …………………………

Submitted to:

Department of

Electronics & Computer

Engineering

Checked by: ……………………….

Title:

Write characters into a file "filec.txt". The set of characters are read form the keyboard until an enterkey is pressed (use putc() and getc() function).

Code:

```c
#include <stdio.h>
#include <stdlib.h>

int main()
{
    char ch[50];
    int i=0;
    FILE *file;

    file=fopen("D:\\file.txt","w");
    if(file==NULL)
    {
        printf("File cannot be opened!!!\n");
        exit(1);
    }
    printf("Enter character to be written in file:\n");
    gets(ch);
    while(ch[i]!='\0')
    {
        fputc(ch[i],file);
        i++;
    }
    fclose(file);
    getch();
```
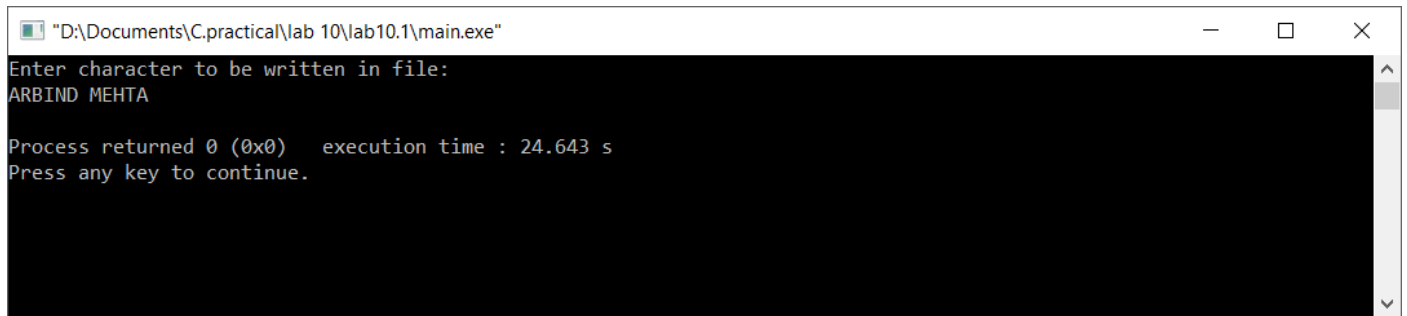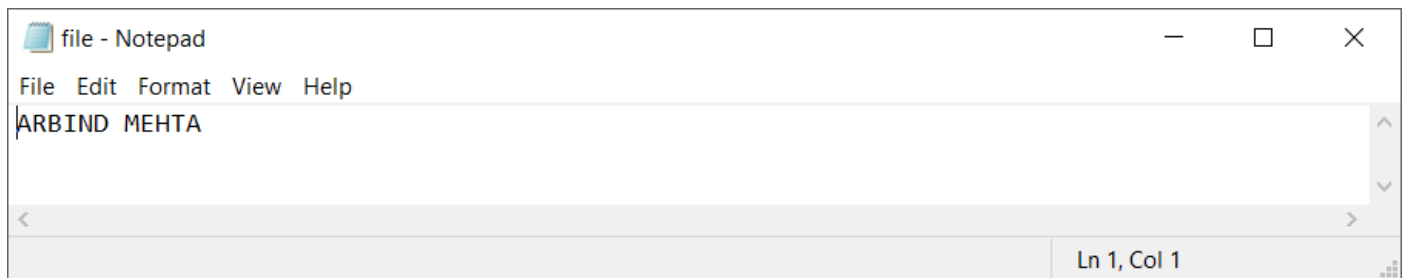
```
        return 0;

}
```

Output (Compilation, Debugging and Testing):

```
■ "D:\Documents\C.practical\lab 10\lab10.1\main.exe"          —    □    ✕

Enter character to be written in file:
ARBIND MEHTA

Process returned 0 (0x0)    execution time : 24.643 s
Press any key to continue.
```

```
📄 file - Notepad                                  —    □    ✕

File  Edit  Format  View  Help
ARBIND MEHTA




                                              Ln 1, Col 1
```

Title:

Read characters form file "filec.txt" created in question 1. Also count the number of characters in the file (use fputs() and fgets() function).

Code:

#include <stdio.h>

#include <stdlib.h>

int main()

{

   char ch[50];

   int i=0;

   FILE *file;

   file=fopen("D:\\file.txt","r");

   if(file==NULL)

```c
    {
        printf("File cannot be opened!!!\n");

        exit(1);

    }
    printf("The character stored in file are:\n");

    while((ch[i]=fgetc(file))!=EOF)

    {

        printf("%c",ch[i]);

        i++;

    }
    printf("\nThe number character in file is: %d",i);

    fclose(file);

    getch();


    return 0;

}
```

Output (Compilation, Debugging and Testing):


```
The character stored in file are:
ARBIND MEHTA
The number character in file is: 12
Process returned 0 (0x0)   execution time : 5.092 s
Press any key to continue.
```

Title:

Write set of strings each of length 40 into a file "stringc.txt" and display it (use fputs() and fgets() function).

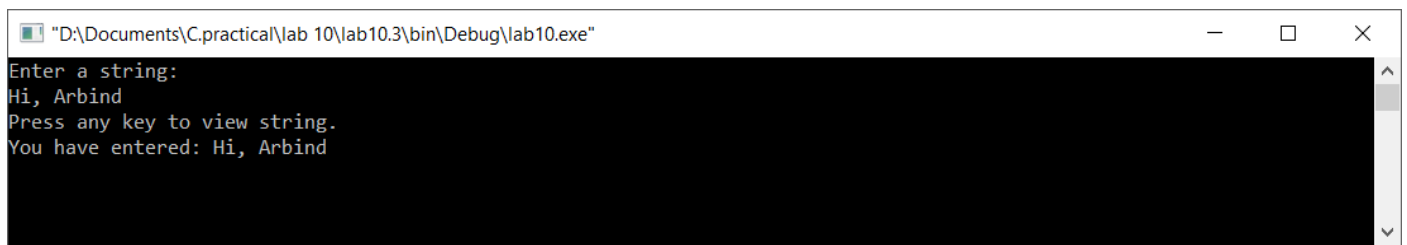# Code:

```c
#include <stdio.h>

#include <stdlib.h>

int main()

{
```

```c
    char ch[50],s[50];
    FILE *file;
file=fopen("D:\\file.2.txt","w");
    if(file==NULL)
      {
       printf("Cannot open file!!!");
       exit(1);
      }
    printf("Enter a string:\n");
    gets(ch);
    fputs(ch,file);
    fclose(file);
    printf("Press any key to view string.\n");
    getch();
    file=fopen("D:\\file.2.txt","r");
    fgets(s,sizeof(s),file);
    printf("You have entered: %s",s);
    fclose(file);
    getch();
    return 0;
}
```

Output (Compilation, Debugging and Testing):


```
"D:\Documents\C.practical\lab 10\lab10.3\bin\Debug\lab10.exe"

Enter a string:
Hi, Arbind
Press any key to view string.
You have entered: Hi, Arbind
```

Title:

Write name, age and height of a person into a data file "person.txt" and read it (use fprintf() and fscanf() function)

Code:

```c
#include <stdio.h>

#include <stdlib.h>

struct per

{

   char nam[30];

   float ag,ht;

}p1;

int main()

{

   FILE *fptr;

   int n,i;

fptr=fopen("D:\\person.txt","w");

   printf("Enter number of person:");

   scanf("%d",&n);

   for(i=0;i<n;i++)

   {

      printf("Enter name age and height of person:\n");

      scanf("%s%f%f",p1.nam,&p1.ag,&p1.ht);

      fflush(stdin);

      fprintf(fptr,"%s\t\t%.2f\t%.2f\n ",p1.nam,p1.ag,p1.ht);

   }

   fclose(fptr);

   printf("Enter any key to view record.\n");

   getch();
```

```c
    printf("Name\t\tAge\tHeight\n****************************************************\n");

    fptr=fopen("D:\\person.txt","r");

    while(!feof(fptr))
    {
        fscanf(fptr,"%s%f%f",p1.nam,&p1.ag,&p1.ht);

        printf("%s\t\t%.2f\t%.2f\n",p1.nam,p1.ag,p1.ht);
    }
    fclose(fptr);


    return 0;

}
```

Output (Compilation, Debugging and Testing):

***

Lab Sheet #10