### **CA-Assignment.**

18207

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## Introduction about the program.

This is about to create a C program which gives the number and square value of the number in front of the given number with the system number.

In there used IDE is Codeblocks 20.03

First program is about to calculate the square value of given number with the system date and time.

Second program is about to create a loop in 20 times.

Third program is details of a txt file.

Fourth program is to read text file from the hard disk and count, given number, square value and the system time and display again with the current system time.

# Different Technology and codes use to develop above program.

Technology = C Programming Language.

Used = Codeblocks Software.

1. System Time Generating for every program at the end:

```
#include
Int t;
time(&t);
```

2. Entering a File path to txt file and displaying of txt file information was also a new technique that gained from this program:

```
fpointer=fopen("c:\\temp\\1.txt","w");
(In here "w" was used to write and "r" was used to read the data in the source code.)
```

#### **Source Code**

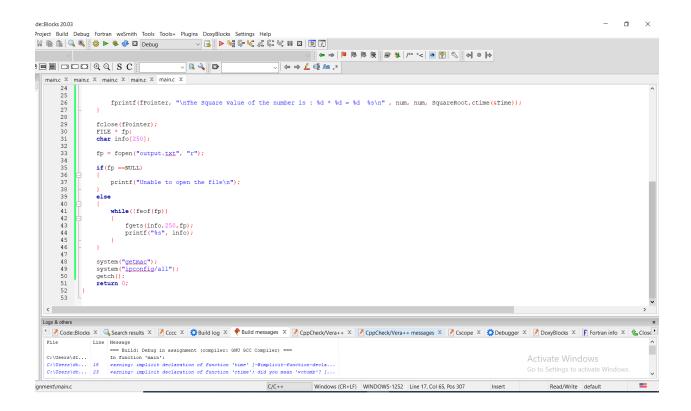
# Program 1.

```
main.c [proram1] - Code::Blocks 20.03
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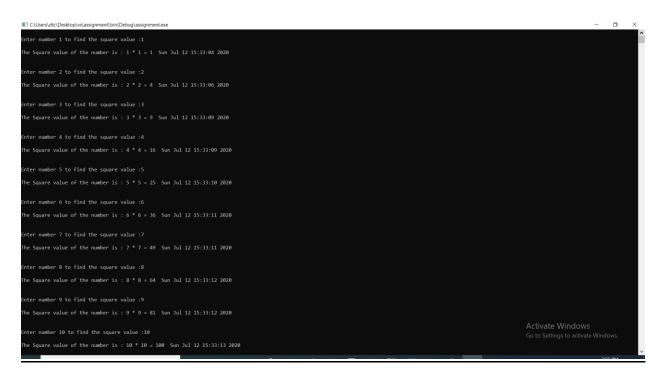
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                                                                                                                             ∨ main() : int
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                                                                                                                                                                                                                                                                                                                                                                                                                √ | ← → <u>/</u> ∰ As .*
   Projects Files FSy
                                                                                                                                                    #include <stdio.h>
#include <stdlib.h>
#include <time.h>
   Workspace
                Sources main.c
                                                                                                                                                    int main()
                                                                                                                        7
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                                                                                                                                                                   int num, SquareValue, t;
                                                                                                                                                                    printf("Enter a number: ");
                                                                                                                                                                    scanf("%d", &num);
                                                                                                                                                                    SquareValue = num * num;
                                                                                                                                                                    printf("%d * %d = %d \n", num, num, SquareValue);
                                                                                                                                                                   time(&t);
printf("System Date & Time : %s", ctime(&t));
                                                                                                                                                                        return 0;
```

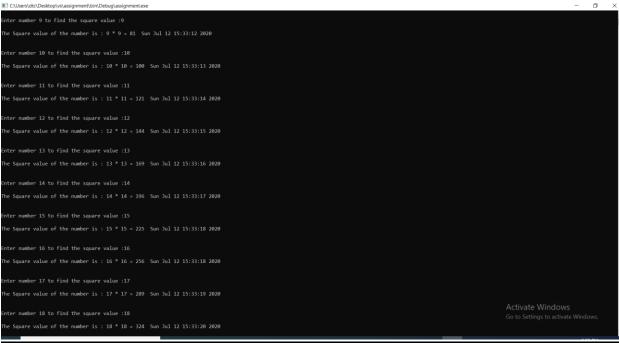
**P**rogram 2,3,4.

```
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                                                               main.c X main.c X main.c X main.c X
          #include <stdio.h>
#include <stdlib.h>
           int main()
                int num, SquareRoot;
               FILE * fPointer;
fPointer = fopen("output.txt", "W");
      10
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               for(j=0; j<20; j++)
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                 size_t Time;
                 printf("\nEnter number %d to find the square value :", j+1);
scanf("%d", &num);
                  SquareRoot = num * num:
                 printf("\nThe Square value of the number is : %d * %d = %d %s\n", num, num, SquareRoot,ctime(&Time));
               fclose(fPointer);
FILE * fp;
char info[250].
      30
31
  <
 Logs & others
   📝 Code:Blocks X 🔍 Search results X 📝 Cccc X 🔅 Build log X 💠 Build log X 🗘 EppCheck/Vera++ X 📝 CppCheck/Vera++ messages X 📝 Cscope X 🔅 Debugger X 💆 DoxyBlocks X 👍 Fortran info X 🐁 Close
                                                                                                                                                                  === Build: Debug in assignment (compiler: GNU GCC Compiler) ===
  C:\Usera\dt...
In function 'main':
C:\Usera\dt...
In function 'main':
A warning: implicit declaration of function 'time' [-#implicit-function-decla...
I warning: implicit declaration of function 'teme'; did you mean 'wetemb'? [...
                                        C/C++ Windows (CR+LF) WINDOWS-1252 Line 17, Col 65, Pos 307 Insert
anment\main.c
                                                                                                                                     Read/Write default
```



# **Output of the program**





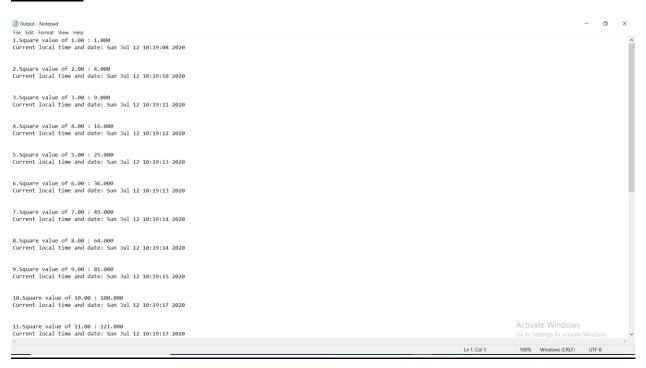
```
0
 nter number 18 to find the square value :18
The Square value of the number is : 20 * 20 = 400 Sun Jul 12 15:33:23 2020
. . . . : DESKTOP-I@CN4F1
. . . . :
. . . . : Hybrid
 ireless LAN adapter Local Area Connection* 1:
 Wireless LAN adapter Local Area Connection* 2:
■ C:\Users\dtc\Desktop\vs\assignment\bin\Debug\assignme
                                                                                                                                                               а
 he Square value of the number is : 20 * 20 = 400 Sun Jul 12 15:33:23 2020
 nable to open the file
Physical Address Transport Name

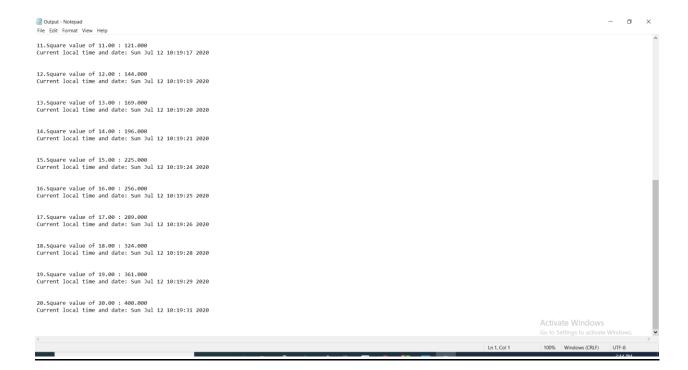
00-(5-03-FD-6A-00 | Nevice\Tcpip_(8FC16482-1273-4946-83EE-870C95045140)
04-92-26-0E-FS-AA | Media disconnected
 ireless LAN adapter Local Area Connection* 2:
 Media State . . . : Media disconnected
Connection-specific DNS Suffix : : Hicrosoft Wi-Fi Direct Virtual Adapter #2
Physical Address . : E2-CS-03-FD-6A-DD
DNCP Enabled . : Yes
Autoconfiguration Enabled . : Yes
                                                                                                                                        Activate Windows
```

Connection-specific DNS Suffix .: nsbm.lk
Description . . . . . . . . . . . Qualcomm Athe

os QCA9377 Wireless Network Adapter

## File path.





## **Discussion and knowledge.**

In this assignment I've found out, how to insert the current Date & Time to a program. • I also improved my knowledge on the usage of basic C programming skills. • Entering, Storing and Retrieving data from txt file was a new thing that I've learnt from this assignment. • The MAC address representation to a program is also a new thing that I learnt from this assignment.