

Lab Manual

Course : CSE 103
Credit Title : Structured Programming
Instructor : Dr. Maheen Islam, Associate Professor, CSE Department

Lab-1: Introduction to C Programming

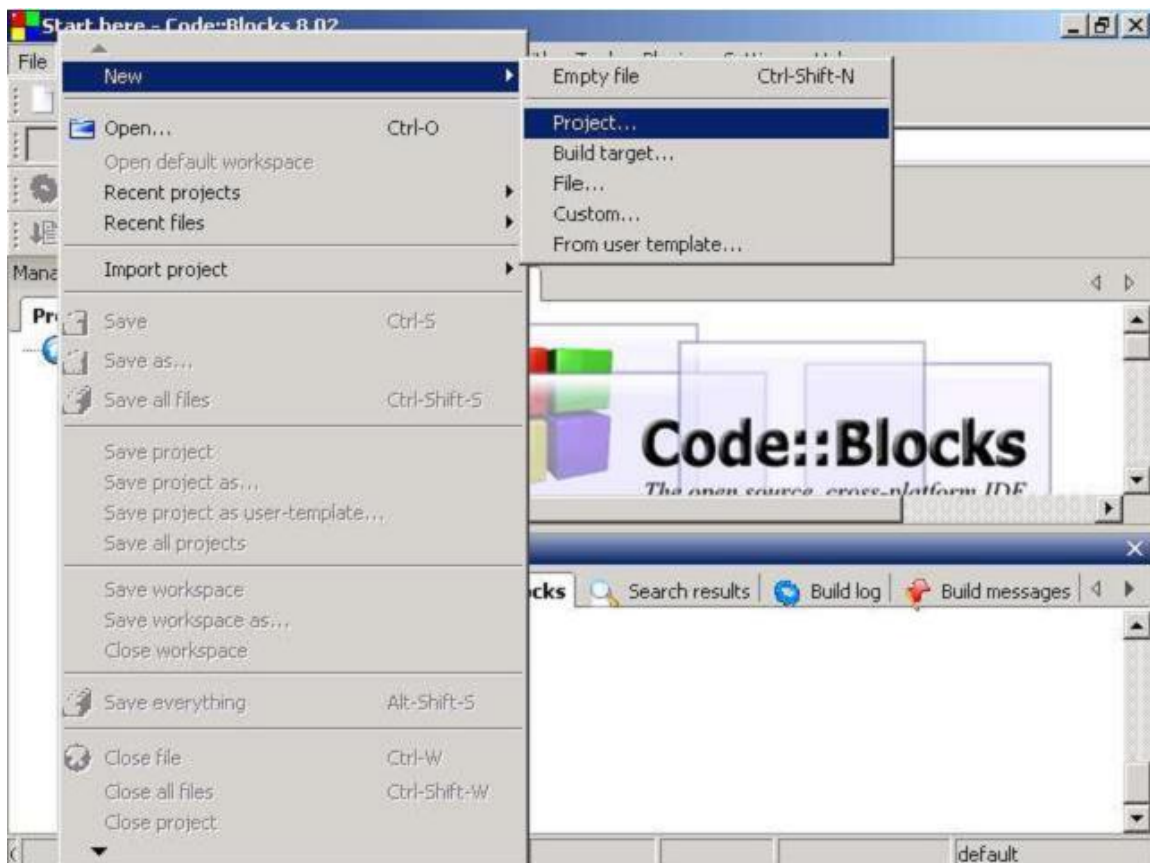
Objective

- Familiarizing with computer and windows operating system
- Familiarizing with C language and integrated development environment (IDE)
- Your First C program.

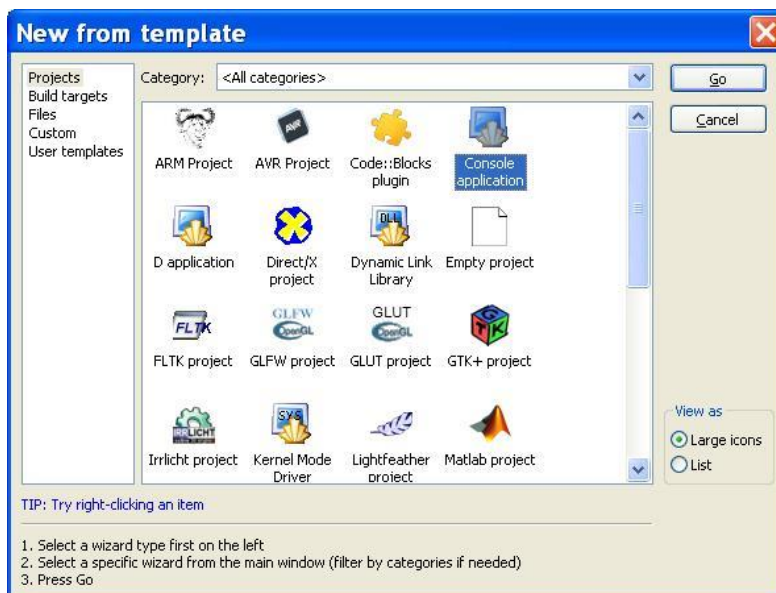
Procedure:

Instructions for starting a new project:

1. Start Code::Blocks by left clicking on the Start button and then go to Programs, in the menu you should be able to find Code::Blocks, and then click on Code::Blocks and the program should start.
2. From the *File* menu select *New*, and then select *Project* as shown below.



3. From the New Project dialog window, select Console Application. Then press the Go button.



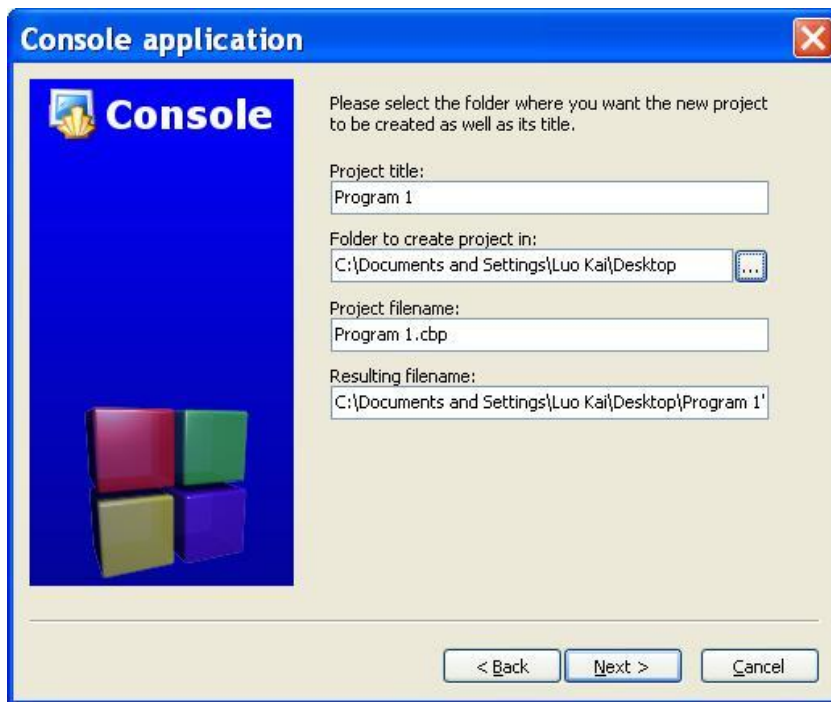
4. Now Code::Blocks will help you to create your project file with a couple forms. On this first one you can check the Skip checkbox and then select the Next button.



5. Now select C and then click on the Next button.



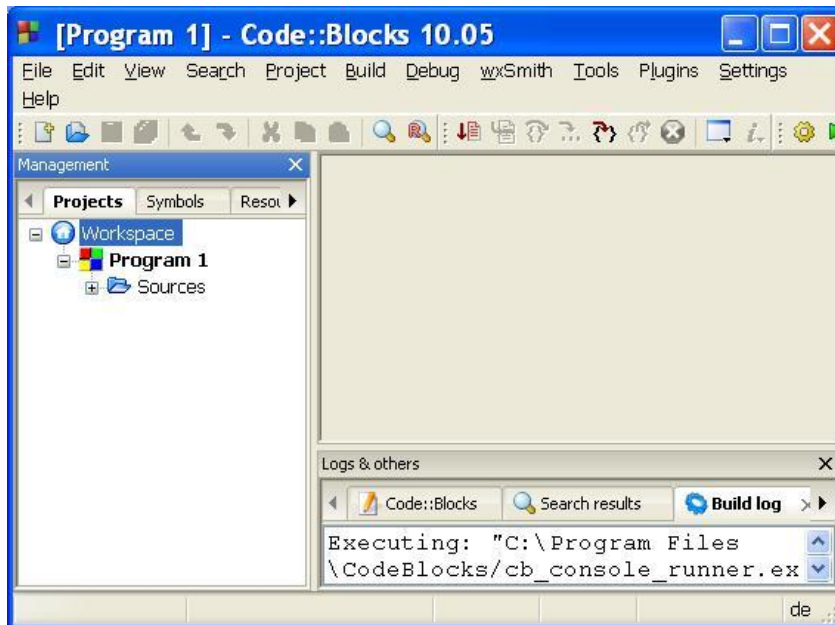
6. Now you can give your project a name and you may want to select the Desktop for the location of where to create the project. Then click on the Next button.



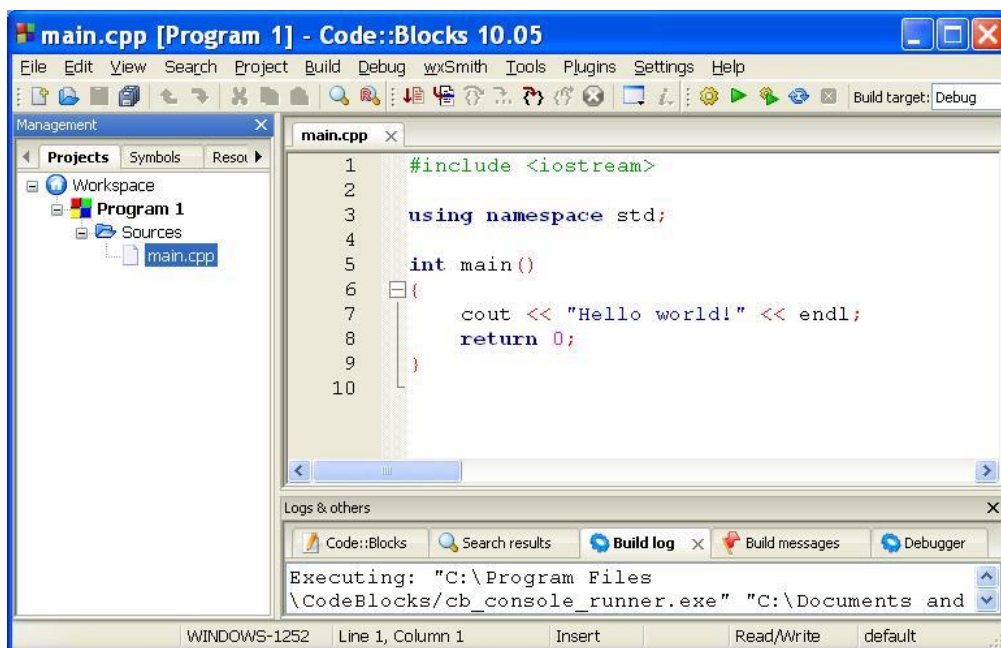
7. Now it will give you some more options, but if the two check boxes are checked then you can just click the Finish button..



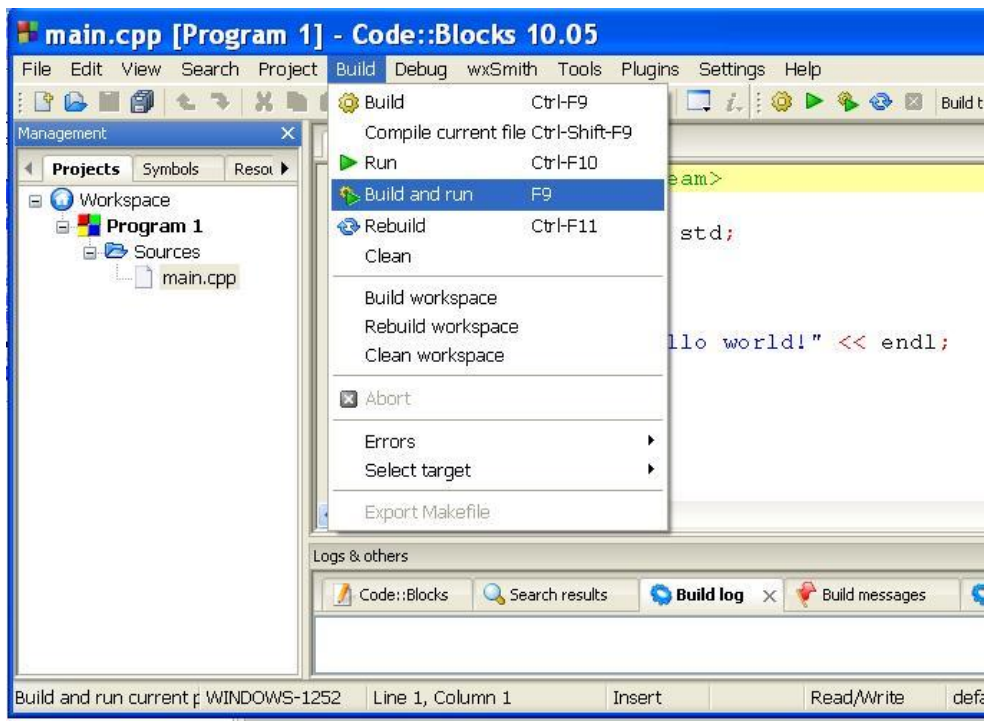
8. Now you should get a screen like below, but hopefully a little bigger.



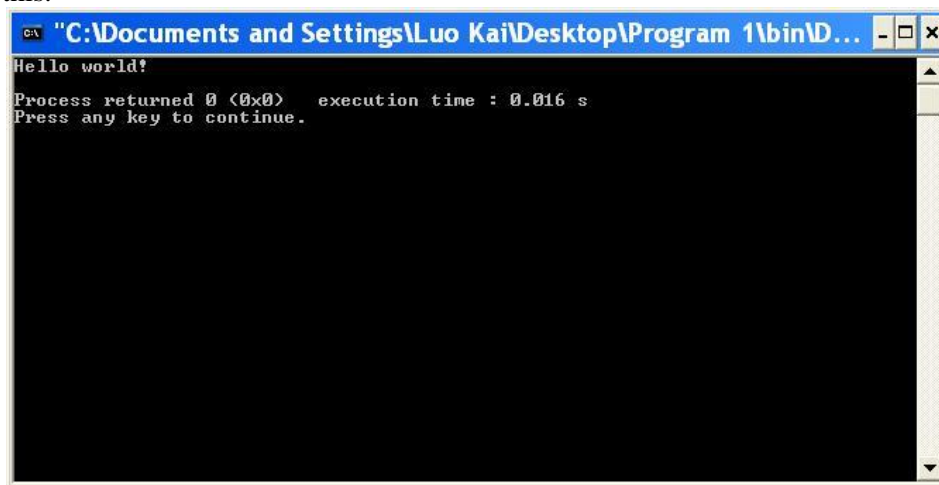
9. Click on the little plus sign next to the Sources to have it show main, and then click on the main to have it show you file



10. Before you change anything, the program should be ready to compile and run. You can select *Build* from the menu and then *Build & Run* (or as you can see from the menu you could just press F9 to do this) to compile and run the program.



11. If there are no problems (and there shouldn't be any), then the program should run something like this.



An example of a program in C:

```
#include <stdio.h>
int main( )
{
    printf("Dhaka\tChittagong Khulna Sylhet");
    printf("\n\tBarishal \t\tRangpur");
    return 0 ;
}
```

Output:

Dhaka Chittagong Khulna Sylhet
Barishal Rangpur

Problem 1:

Write a program to print the following in C language.

```
There are six divisions in Bangladesh
    Dhaka
    Chittagong
    Rajshahi
    Khulna
    Sylhet
    Bangladesh

I live in Dhaka.
```

Problem 2:

Write a program to print the following in C language.

```
My Family Information-
    Name: Devid
    Father: Daud
    Mother: Stella

Education Information:
    School: Saint Joseph School
    College: Mirpur College
    University: East West University
```

Problem 3:

Write a program to print the following in C language.

```
First Line: Your name
           Second Line: House no#, Apt#
Third Line: Post code#, City
           Forth Line: Country name
```

Problem 4:

Write a program to print the following in C language.

```

-----
-----
|| Name :-- MD. Al Amin ||
|| House No:-- 45, Street:- Fular Road||
||City:-- Dhaka, Post Code:-- 1217 ||
-----
-----

```

Problem 5:

Write a program to print the following in C language.

```

*
* *
* * *
* * * *

```

Problem 6:

Write a program to print the following in C language.

```

5 * 1 =5
          5 * 2 =10
5 * 3 =15
          5 * 4 =20
5 * 5 =25
          5 * 6 =30
5 * 7 =35
          5 * 8 =40
5 * 9 =45
          5 * 10 =50

```

Problem 7:

Write a program to print the following in C language.

```

-----
|         |         |         |
|         | >>-----> |         |
-----

```


Home Work:

Hello World	Hello World	H e l l o
* ** *** ****	**** *** ** *	***** * * * * *****
* *** ***** * * * * *	* *** ***** * * * * ***** *** *	***** ***** ***** * * * * ***** ***** * * * ***** ***** *****

You have to print the above TEXT using *printf* and *\n* only.