Using CodeBlocks

Introduction to Codeblocks for lab sessions

CodeBlocks version in lab: 16.01

CodeBlocks current version: 17.12 (Requires to do some setting for debugger)

Basic creation of new project for coding

1. Launch CodeBlocks

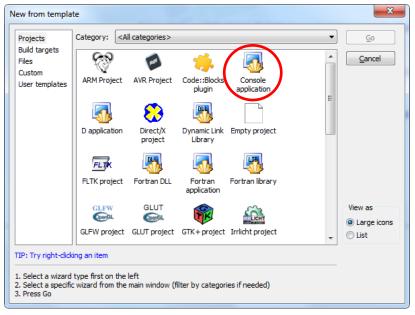


- 2. Create a new project
 - Click on the Create a new project on the Start here Tab; or



• Go to File->New->Project...

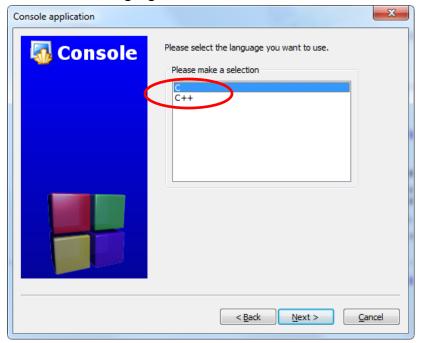
3. Select Console Application



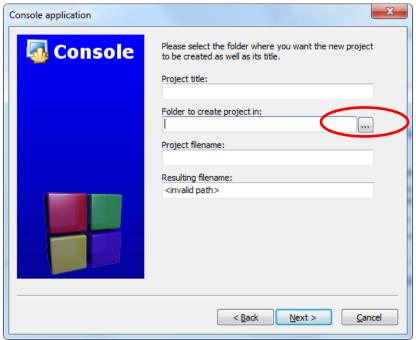
4. Click Next



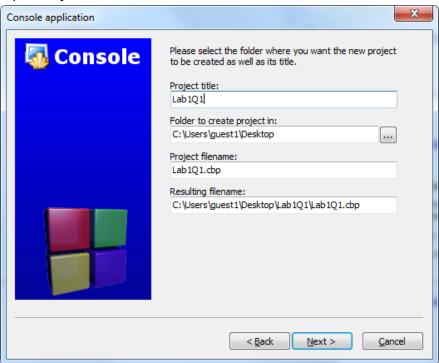
5. Select **C** as the language



6. Set the path for your new project to the desktop at **Folder to create project in**Do remember to copy to your projects to your thumb drive or network drive for backup.



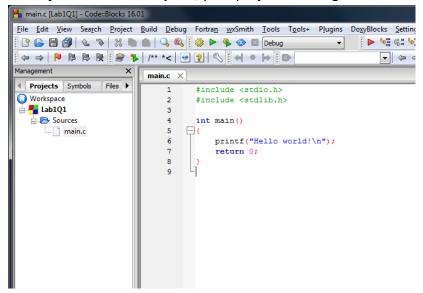
7. Input Project title and click Next



8. Click Finish



9. At Projects Tab->Workspace, your project will be generated with a default main.c file



10. You may begin your coding on the main.c file

Auto Styling of Code

1. All the code in the column

```
uild <u>D</u>ebug Fortra<u>n</u> <u>w</u>xSmith <u>T</u>ools T<u>o</u>ols+ P<u>l</u>ugins Do<u>x</u>yBlocks <u>S</u>ettings <u>H</u>elp
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                                             *main.c ×
          #include <stdio.h>
   2
          int main()
        □ {
   3
   4
         double firstNumber, secondNumber, product;
   5
         printf("Enter two numbers: ");
   6
   7
         // Stores two floating point numbers in variable firstNumber
         scanf("%lf %lf", &firstNumber, &secondNumber);
   8
   9
  10
         // Performs multiplication and stores the result in variable
  11
         product = firstNumber * secondNumber;
  12
  13
         // Result up to 2 decimal point is displayed using %.21f
  14
         printf("Product = %.21f", product);
  15
  16
         return 0;
  17
```

2. Press **Ctrl + a** to hightlight all the code, **right Click** on the mouse and select **Format Use AStyle**

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<u>Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings H</u>elp
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                                             /** *< | • | • | • | • | • | • |
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*main.c ×
    1
          #include <stdio.h>
    2
          int main()
    3
          double firstNumber, secondNumber, product;
    4
    5
          printf("Enter two numbers: ");
    6
    7
    8
          scanf("%lf %lf", &firstNumber, &secondNumber);
    9
   10
   11
          product = firstNumber * secondNumber;
   12
   13
   14
          printf("Product = %.2lf", product);
   15
          return 0;
   16
```

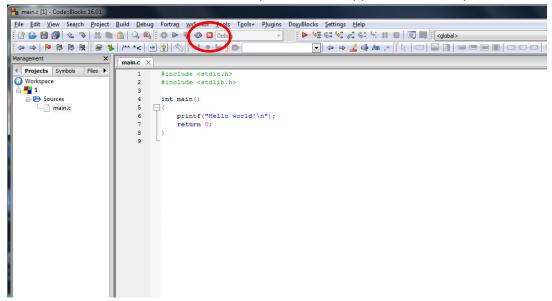
3. After formatting

```
: <u>B</u>uild <u>D</u>ebug Fortra<u>n w</u>xSmith <u>T</u>ools T<u>o</u>ols+ P<u>l</u>ugins Do<u>x</u>yBlocks <u>S</u>ettings <u>H</u>elp
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                                                *main.c
            #include <stdio.h>
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            // Result up to 2 decimal point is displayed using %.211
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                printf("Product = %.21f", product);
     15
     16
                return 0;
```

Version 1.1

CodeBlocks' Common Errors

- 1. Codeblocks cannot build after pressing abort button on the toolbar
 - Save your project restart Codeblock
 - Do not use the abort button, close your console application directly to end



- 2. No permission to overwrite the ".exe" file
 - Go to the Task Manager->Applications (Windows 10: Task Manager->Details)
 - At **Tasks** end the project's ".exe"
- 3. Cannot run debugger

To use the debugger, you must create a project for your code.

4. Debugger not found, common in version 17.12

```
Logs & others

Search results X Cccc X Build log X Build messages X CppCheck X CppC

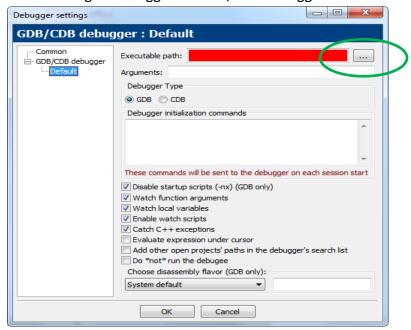
Selecting target:
Debug

ERROR: You need to specify a debugger program in the debuggers's settings.

(For MinCW compilers, it's 'gdb.exe' (without the quotes))

(For MSVC compilers, it's 'cdb.exe' (without the quotes))
```

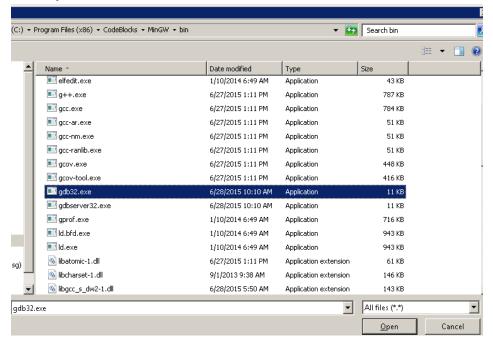
Go to Settings->Debugger...->GDB/CDB debugger->Default->Executable path



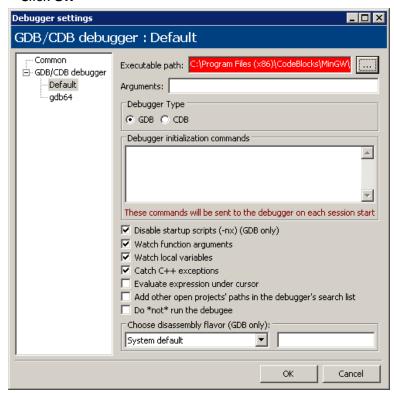
Set the path for debugger pointing where Codeblocks is being installed.
 For Example:

C:\Program Files (x86)\CodeBlocks\MinGW\bin

- Select the file gdb or gdb32
- Click Open



Click OK



References

1. http://www.codeblocks.org/downloads