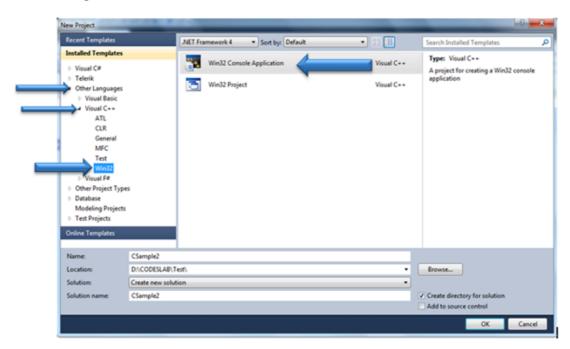
Procedural Programming Laboratory Lab 1 Introduction to Microsoft Visual Studio

In this lab we are going to walkthrough writing C program in Visual Studio 2010.

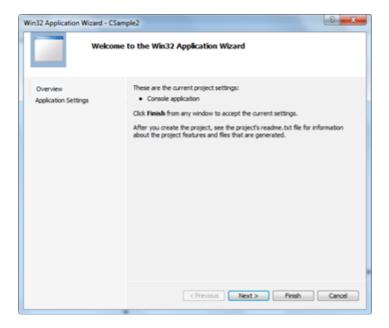
Follow the steps as below,

- Create a new project by clicking **File->New->Project**.
- From Installed Template choose other language
- Choose language Visual C++
- In Visual C++ choose tab **Win32**
- Choose project type Win32 Console Application

See the image below,

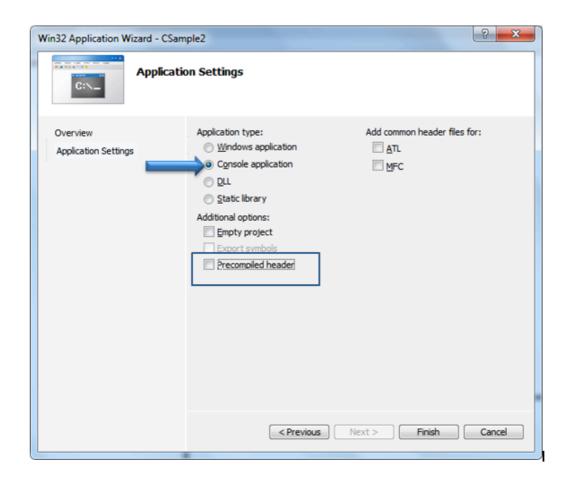


From the dialog box click on **Next** button



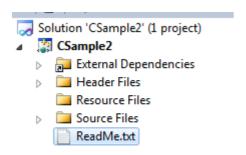
Next screen is of **Application Setting**. You need to make sure

- Application type is set a Console Application
- In Additional options uncheck the Precompiled Header.



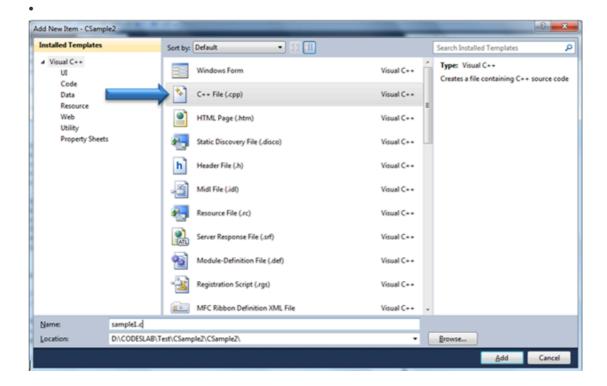
After clicking Finish you will find a project has been created with below structure.

Open solution explorer to see the structure



To start programming, right click on **Source Files and add a new item**. You need to make sure below two points,

- Select C++ File to add
- But in name change extension to .C, default is .CPP. To work with C language program source file name should be with extension .C. In this case I am giving source file name as Sample1.C



Now open Sample1.c and write a hello world program as below,

Sample1.c

```
1
2  #include<stdio.h>
3  void main()
4  {
5  printf("hello C from Visual Stido 2010");
6  getch();
7
```

To compile and run the program, simply press F5 and you should get output in console windows as below,

```
D:\CODESLAB\Test\CSample2\Debug\CSample2.exe
hello C from Visual Stido 2010
```

You can see that **CSample2.exe** is running and this is name of the project.

Next let us go ahead and write some code to print address of a variable using Pointer.

Sample1.c

```
1
2
       #include<stdio.h>
3
       #include<conio.h>
       void main()
4
5
       int number1=9;
6
       int *ptrNumber1;
7
       printf("hello C from Visual Stido 2010\n");
       ptrNumber1= &number1;
8
       printf("%d\n", number1);
9
       printf("%d\n",*ptrNumber1);
10
       printf("%d\n",ptrNumber1);
11
       printf("%d\n",&number1);
12
       getch();
       }
13
14
```

Above code is quiet simple,

- Declaring a pointer variable
- Declaring a pointer
- Assigning integer variable to pointer
- Printing values and address of integer variable