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## C-138 $\Rightarrow$ Enumeration in C

### enum datatype in C

enum:

- \* It is a user defined data type.

- \* In this lecture we will see how to use enum to define our own data type, how to declare a variable of enum type, how to use this in our programs, why we use enum, use of enum, how it is different from structure and union.

enum:

- \* It is a user defined data type basically used to assign names to integral constants.

- \* We know macro; #define max 50; where max is the name for integral constant 50; same thing enum will do; but why we use enum?

- \* Names are used to increase the readability of the program.

- \* Eg.: To call the student by his roll no is less readable than calling the student by his name.

How we declare structure datatype,  
struct student  
{

};  
-----  
struct student s;



\* In same we define enum datatype.

Eg: ① enum days {

Sun,  
Mon,  
Tue,

};

Eg: ② enum week-days { Sun, Mon, Tue, Wed, Thu, Fri, Sat };

enum week-day today;

↳ These are the possible values for the enum datatype week-days.

Eg: int a;

↳ possible values for variable 'a' is any integer values.

↳ Similarly possible value for our enum datatype week-days having variable 'today' have possible values {Sun, ..., Sat}.

today = Tue;

Eg: ③ enum week-days { Sun, Mon, Tue, Wed, Thu };

enum week-days today1, today2;

today1 = Sun;

today2 = Sat; ✗

'today1' variable having 'sun' value is allowed but 'today2' variable having 'sat' value is not allowed since the datatype is not defined with 'sat' value.



\* when to use enum?

↳ when your variable is going to handle a set of values.

↳ Eg: Month → only 12 possibilities  
Directions → only 4 possibilities  
gender → only 2 possibilities

\* when we define enum, then the compiler will automatically assign the enum values with integers.

↳ Eg: enum week days { Sun, Mon, Tue, Wed, Thu, Fri, Sat };  
0 1 2 3 4 5 6

```
enum week-day today;  
today = Sun;  
printf("%i", today); ⇒ 0.
```

↳ when you print 'today' we get value in integer form as 0.

\* We can also assign our own values;

↳ Eg: enum week-days { Sun, Mon, Tue, Wed, Thu, Fri, Sat, Sun };  
1 2 3 4 5 6  
=0

```
enum week-days today;  
today = Mon;  
printf("%i", today); ⇒ 1.
```



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\* We can also assign numbers in any order; but automatically the next number is assigned a value with one incremented from previous value.

↳ Eg: enum week-days = { Sun=1, Mon=5, Tues<sup>6</sup> };  
enum week-days today = Tues; <sup>previous value + 1</sup>  
printf("%d", today); ⇒ (6) <sup>(5+1=6)</sup>

\* Eg:- enum week-days { Sun=1, Mon=0, Tues<sup>1</sup>, Wed<sup>2</sup>, Thurs<sup>3</sup> };  
enum week-days today = Tues;  
printf("%d", today);

### NOTE:

\* Why we don't use Macro? Macros comes under global scope and preprocessing phase

Eg: #define MAX 50  
↳ whenever we put # then it preprocess the MAX name with '50' value.

\* When you put this #define MAX 50 ~~code~~ inside any function block; there also it acts as global because Macro always have global scope.

\* But enum datatype have both global and local scope.



\* In Macro we have to explicitly define the macro value but in enum the compiler will automatically assign the values.

\* In Macro we can define only one value but in enum we can define a set of values.

\* In enum data type; within the same scope the duplicate values are not allowed.

↳ Eg:-  

```

main()
{
    enum weekdays { Sun, Mon, Tues, Wed };
    enum weekdays { Sun, Sat };
}

```

 in same scope not allowed

\* But in different scope duplicate values are allowed.

↳ Eg:-  

```

void days()
{
    enum weekdays { Sun, Mon, Tues };
}

main()
{
    enum weekdays { Sun, Sat };
}

```

 in different scope allowed

\* Only integer values are allowed in enum data type

↳ Eg:-  

```

enum point { x=0, y=2.5 };

```

 not allowed

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\* Can have same integral constant.

↳ Eg:- enum point { x=0, y=0}; ✓

\* We can use enum in switch case also.

↳ Eg:- enum weekdays { Sun, Mon, Tue, Wed, Thu, Fri, Sat};

enum weekdays today;

today = Sun;

Switch (today)

{

Case Sun :

printf(" --- ");

Case Mon :

printf(" - - - ");

{

}

✓  
It increase  
readability in  
Switch case.

\* Eg:- enum gender { male, female, others};

enum gender g;

g = male;

if (g == male)

{

printf(" Discount is 25% ");

}



main.c [1\_Enumeration in C-enum data type] - Code::Blocks 20.03

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1\_Enumeration in C-enum data type

Sources

main.c

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 /** 1 - Enumeration in C */
4 /** enum data type */
5
6 enum weekdays{sun,mon,tue,wed,thu,fri,sat};
7
8 int main()
9 {
10     enum weekdays today;
11     today=sun;
12     printf("Today is sunday=%d",today); |
13     return 0;
14 }
15
```

Logs & others

Code::Blocks x Search results x Cccc x Build log x Build messages x CppCheck/Vera++ x CppCheck/Vera++ messages x Cscop...

D:\1. C C++\NOTEBOOK\C LANGUAGE\C PROGRAMS\C/C++ Windows (CR+LF) WINDOWS-1252 Line 12, Col 40, Pos 240 Insert Read/Write default

"D:\1. C C++\NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5\_Jennys Lectures\PART 11\_JENNY'S LECTURE\_MISCELLANEOUS T...

Today is sunday=0

Process returned 0 (0x0) execution time : 0.031 s

Press any key to continue.

main.c [2\_Enumeration in C-enum data type] - Code::Blocks 20.03

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PART 11\_JENNY'S LECTURE\_MISCELLANEOUS

1\_Enumeration in C-enum data type

Sources

main.c

2\_Enumeration in C-enum data type

Sources

main.c

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 /** 2 - Enumeration in C */
4 /** enum data type */
5
6 enum weekdays{sun,mon,tue};
7
8 int main()
9 {
10     enum weekdays today;
11     today=sat;
12     printf("Today is saturday=%d",today);
13     return 0;
14 }
15
```

Logs & others

Code::Blocks x Search results x Cccc x Build log x Build messages x CppCheck/Vera++ x CppCheck/Vera++ messages x Cscop...

File	Line	Message
D:\1. C C++\...		=== Build: Debug in 2_Enumeration in C-enum data type (compiler: GNU GCC Co...
D:\1. C C++\...		In function 'main':
D:\1. C C++\...	11	error: 'sat' undeclared (first use in this function)
D:\1. C C++\...	11	note: each undeclared identifier is reported only once for each function it...
		=== Build failed: 1 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ===

D:\1. C C++\NOTEBOOK\C LANGUAGE\C PROGRAMS\C/C++ Windows (CR+LF) WINDOWS-1252 Line 11, Col 1, Pos 169 Insert Read/Write default

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 /** 3 - Enumeration in C */
4 /** enum data type */
5
6 enum weekdays{sun,mon,tue,wed,thu,fri,sat};
7
8 int main()
9 {
10     enum weekdays today1,today2;
11     today1=sun;
12     today2=mon;
13     printf("Today is sunday=%d\n",today1);
14     printf("Today is monday=%d\n",today2);
15     return 0;
16 }
17
```

Logs & others

Code::Blocks Search results Cccc Build log Build messages CppCheck/Vera++ CppCheck/Vera++ messages Cscope

Executing: "C:\Program Files\CodeBlocks\cb\_console\_runner.exe" "D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5\_Jennys Lectures\PART 11\_JENNYS LECTURE\_MISCELLANEOUS TOPICS\3\_Enumeration in C-enum data type\bin\Debug\3\_Enumeration in C-enum data type.exe" (in D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5\_Jennys Lectures\PART 11\_JENNYS LECTURE\_MISCELLANEOUS TOPICS\3\_Enumeration in C-enum data type\.)

D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5\_Jennys Lectures\PART 11\_JENNYS LECTURE\_MISCELLANEOUS TOPICS\3\_Enumeration in C-enum data type\bin\Debug\3\_Enumeration in C-enum data type.exe C/C++ Windows (CR+LF) WINDOWS-1252 Line 14, Col 33, Pos 303 Insert Read/Write default

"D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5\_Jennys Lectures\PART 11\_JENNYS LECTURE\_MISCELLANEOUS TOPICS\3\_Enumeration in C-enum data type\bin\Debug\3\_Enumeration in C-enum data type.exe"

Today is sunday=0  
Today is monday=1

Process returned 0 (0x0) execution time : 0.035 s  
Press any key to continue.

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 /** 4 - Enumeration in C */
4 /** enum data type */
5
6 enum weekdays{sun,mon,tue,wed,thu,fri,sat};
7
8 int main()
9 {
10     enum weekdays today1,today2;
11     today1=sun;
12     today2=mon;
13     printf("Today is sunday=%d\n",today1);
14     printf("Today is monday=%d\n",today2);
15     return 0;
16 }
17
```

Logs & others

Code::Blocks Search results Cccc Build log Build messages CppCheck/Vera++ CppCheck/Vera++ messages Cscope

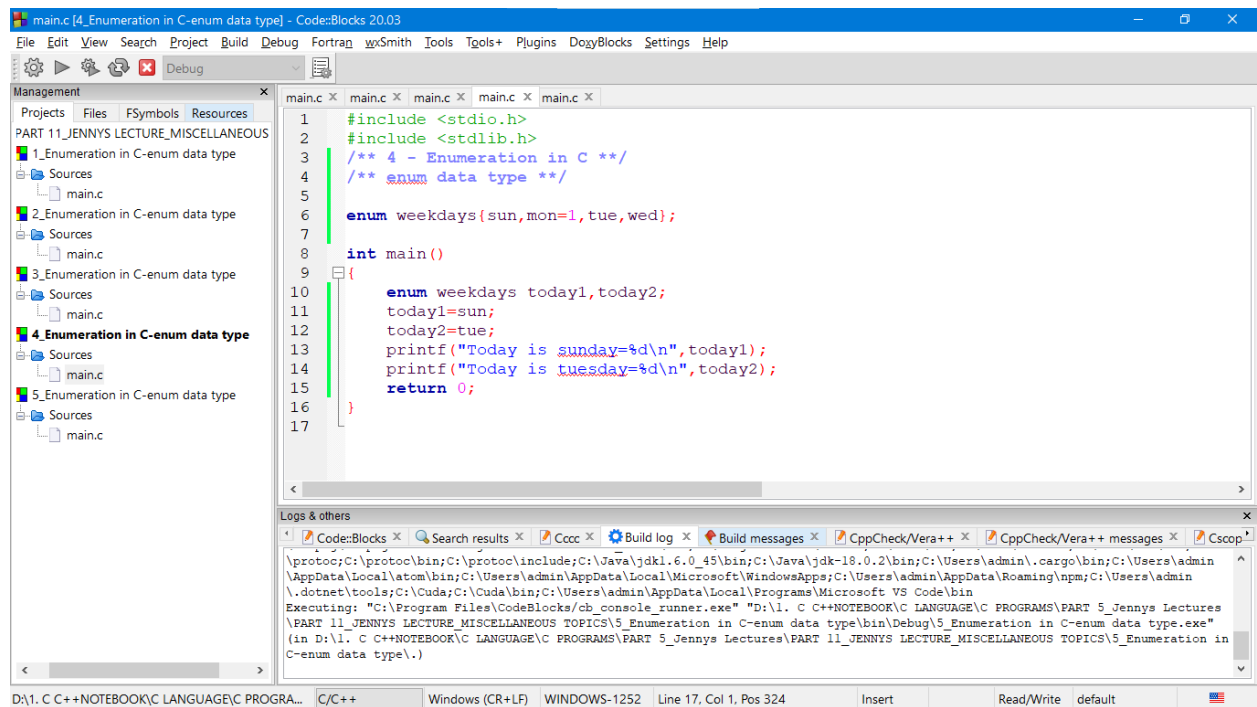
Executing: "C:\Program Files\CodeBlocks\cb\_console\_runner.exe" "D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5\_Jennys Lectures\PART 11\_JENNYS LECTURE\_MISCELLANEOUS TOPICS\4\_Enumeration in C-enum data type\bin\Debug\4\_Enumeration in C-enum data type.exe" (in D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5\_Jennys Lectures\PART 11\_JENNYS LECTURE\_MISCELLANEOUS TOPICS\4\_Enumeration in C-enum data type\.)

D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5\_Jennys Lectures\PART 11\_JENNYS LECTURE\_MISCELLANEOUS TOPICS\4\_Enumeration in C-enum data type\bin\Debug\4\_Enumeration in C-enum data type.exe C/C++ Windows (CR+LF) WINDOWS-1252 Line 3, Col 1, Pos 41 Insert Read/Write default



```
"D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 11_JENNY'S LECTURE_MISCELLANEOUS T...
Today is sunday=0
Today is tuesday=2

Process returned 0 (0x0)   execution time : 0.047 s
Press any key to continue.
```



```
"D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 11_JENNY'S LECTURE_MISCELLANEOUS T...
Today is sunday=0
Today is tuesday=2

Process returned 0 (0x0)   execution time : 0.036 s
Press any key to continue.
```

The screenshot shows the Code::Blocks IDE with a C program named "5\_Enumeration in C-enum data type". The program includes `<stdio.h>` and `<stdlib.h>`, and defines an enumeration `weekdays` with values `sun=1`, `mon=5`, and `tue`. The `main` function declares a `weekdays` variable named `today`, assigns it the value `tue`, and prints "Today is tuesday=%d", where `%d` is replaced by the value of `today` (6). The program returns 0.

The "Logs & others" panel at the bottom shows the execution output: "D:\1. C C++\NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5\_Jennys Lectures\PART 11\_JENNYS LECTURE\_MISCELLANEOUS TOPICS\5\_Enumeration in C-enum data type.exe" (in D:\1. C C++\NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5\_Jennys Lectures\PART 11\_JENNYS LECTURE\_MISCELLANEOUS TOPICS\5\_Enumeration in C-enum data type\.)

The status bar at the bottom indicates the file path: "D:\1. C C++\NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5\_Jennys Lectures\PART 11\_JENNYS LECTURE\_MISCELLANEOUS TOPICS\5\_Enumeration in C-enum data type.exe", the language is C/C++, and the window title is "WINDOWS-1252".

"D:\1. C C++\NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5\_Jennys Lectures\PART 11\_JENNYS LECTURE\_MISCELLANEOUS TOPICS\5\_Enumeration in C-enum data type.exe" (in D:\1. C C++\NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5\_Jennys Lectures\PART 11\_JENNYS LECTURE\_MISCELLANEOUS TOPICS\5\_Enumeration in C-enum data type\.)

Today is tuesday=6  
Process returned 0 (0x0) execution time : 0.016 s  
Press any key to continue.

The screenshot shows the Code::Blocks IDE with a C program named "6\_Enumeration in C-enum data type". The program includes `<stdio.h>` and `<stdlib.h>`, and defines an enumeration `weekdays` with values `sun=1`, `mon=0`, `tue`, and `wed`. The `main` function declares two `weekdays` variables, `today1` and `today2`, assigns them the values `sun` and `tue` respectively, and prints "Today is sunday=%d\n" and "Today is tuesday=%d\n", where `%d` is replaced by the values of `today1` (1) and `today2` (5). The program returns 0.

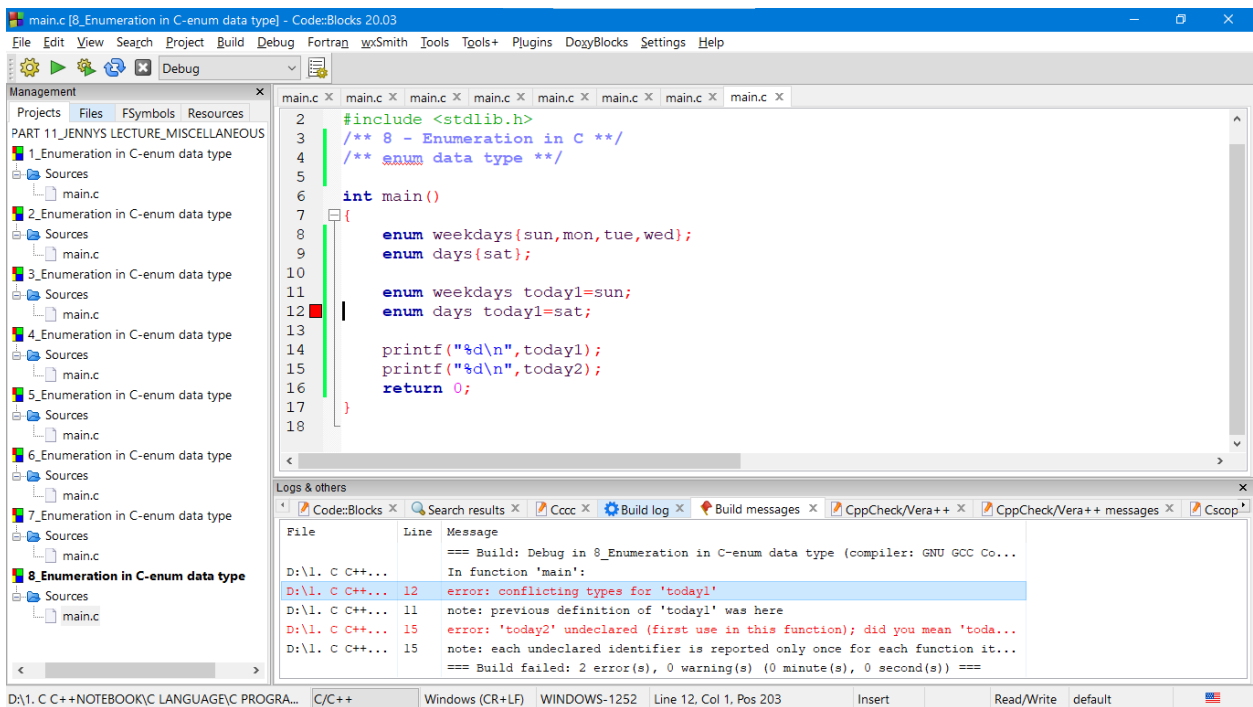
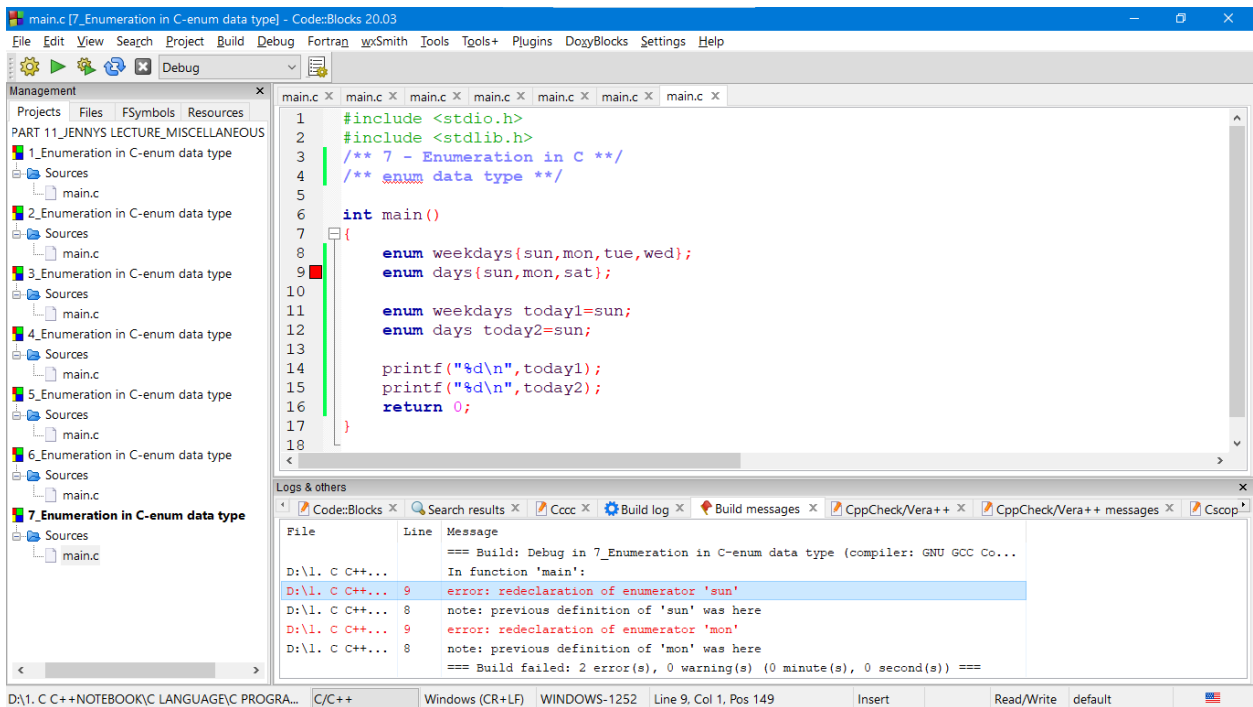
The "Logs & others" panel at the bottom shows the execution output: "D:\1. C C++\NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5\_Jennys Lectures\PART 11\_JENNYS LECTURE\_MISCELLANEOUS TOPICS\6\_Enumeration in C-enum data type.exe" (in D:\1. C C++\NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5\_Jennys Lectures\PART 11\_JENNYS LECTURE\_MISCELLANEOUS TOPICS\6\_Enumeration in C-enum data type\.)

The status bar at the bottom indicates the file path: "D:\1. C C++\NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5\_Jennys Lectures\PART 11\_JENNYS LECTURE\_MISCELLANEOUS TOPICS\6\_Enumeration in C-enum data type.exe", the language is C/C++, and the window title is "WINDOWS-1252".



```
"D:\1. C C++\NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 11_JENNY'S LECTURE_MISCELLANEOUS T...
Today is sunday=1
Today is tuesday=1

Process returned 0 (0x0)   execution time : 0.047 s
Press any key to continue.
```



```
1 #include <stdio.h>
2 #include <stdlib.h>
3 /** 9 - Enumeration in C */
4 /** enum data type */
5
6 int main()
7 {
8     enum weekdays{sun,mon,tue,wed};
9     enum days{sat};
10
11     enum weekdays today1=sun;
12     enum days today2=sat;
13
14     printf("%d\n",today1);
15     printf("%d\n",today2);
16     return 0;
17 }
18
```

Logs & others

Code::Blocks Search results Cccc Build log Build messages CppCheck/Vera++ CppCheck/Vera++ messages Cscop

\\Microsoft\\Windows\\Start Menu\\Programs\\CMake;C:\\Program Files\\CMake\\bin;C:\\Program Files\\nodejs;C:\\Python;C:\\Python\\Scripts;C:\\ffmpeg\\ffmpeg-2022-03-17-git-242c07982a-full\_build\\bin;C:\\Program Files\\dotnet;C:\\cuda\\bin;C:\\cuda\\include;C:\\cuda\\lib\\x64;C:\\protoc;C:\\protoc\\bin;C:\\protoc\\include;C:\\Java\\jdk1.6.0\_45\\bin;C:\\Java\\jdk-18.0.2\\bin;C:\\Users\\admin\\.cargo\\bin;C:\\Users\\admin\\AppData\\Local\\atom\\bin;C:\\Users\\admin\\AppData\\Local\\Microsoft\\WindowsApps;C:\\Users\\admin\\AppData\\Roaming\\npm;C:\\Users\\admin\\dotnet\\tools;C:\\Cuda;C:\\Cuda\\bin;C:\\Users\\admin\\AppData\\Local\\Programs\\Microsoft VS Code\\bin

Executing: "C:\\Program Files\\CodeBlocks\\cb\_console\_runner.exe" "D:\\1. C C++NOTEBOOK\\C LANGUAGE\\C PROGRAMS\\PART 5\_Jennys Lectures\\PART 11\_JENNYS LECTURE MISCELLANEOUS TOPICS\\9\_Enumeration in C-enum data type\\bin\\Debug\\9\_Enumeration in C-enum data type.exe" (in D:\\1. C C++NOTEBOOK\\C LANGUAGE\\C PROGRAMS\\PART 5\_Jennys Lectures\\PART 11\_JENNYS LECTURE MISCELLANEOUS TOPICS\\9\_Enumeration in C-enum data type\\.)

D:\\1. C C++NOTEBOOK\\C LANGUAGE\\C PROGRAMS\\PART 5\_Jennys Lectures\\PART 11\_JENNYS LECTURE MISCELLANEOUS TOPICS\\9\_Enumeration in C-enum data type\\bin\\Debug\\9\_Enumeration in C-enum data type.exe

C/C++ Windows (CR+LF) WINDOWS-1252 Line 3, Col 6, Pos 46 Insert Read/Write default

"D:\\1. C C++NOTEBOOK\\C LANGUAGE\\C PROGRAMS\\PART 5\_Jennys Lectures\\PART 11\_JENNYS LECTURE MISCELLANEOUS TOPICS\\9\_Enumeration in C-enum data type\\bin\\Debug\\9\_Enumeration in C-enum data type.exe"

Process returned 0 (0x0) execution time : 0.052 s

Press any key to continue.

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 /** 10 - Enumeration in C */
4 /** enum data type */
5
6 enum weekdays{sun,mon,tue};
7
8 int main()
9 {
10     enum weekdays{sun=1};
11     enum weekdays today1=sun;
12     printf("Today=%d",today1);
13     return 0;
14 }

```

Logs & others

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D:\\1. C C++NOTEBOOK\\C LANGUAGE\\C PROGRAMS\\PART 5\_Jennys Lectures\\PART 11\_JENNYS LECTURE MISCELLANEOUS TOPICS\\10\_Enumeration in C-enum data type\\bin\\Debug\\10\_Enumeration in C-enum data type.exe

C/C++ Windows (CR+LF) WINDOWS-1252 Line 14, Col 1, Pos 234 Insert Read/Write default



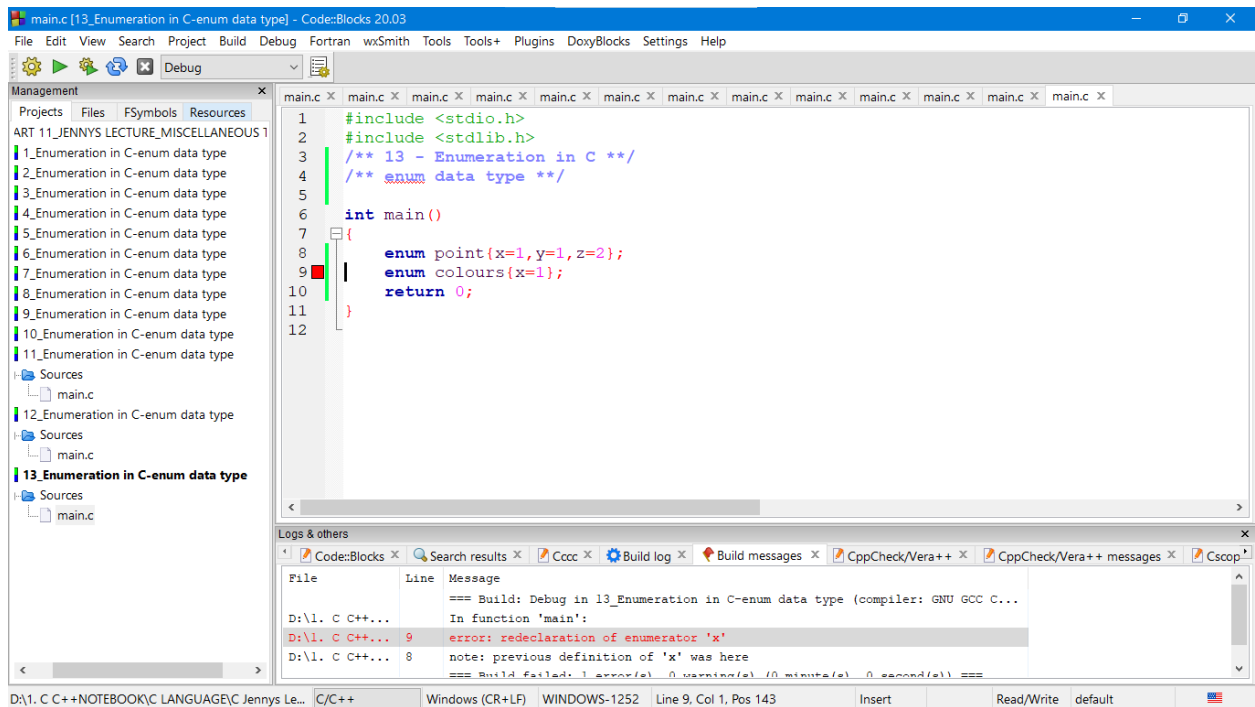
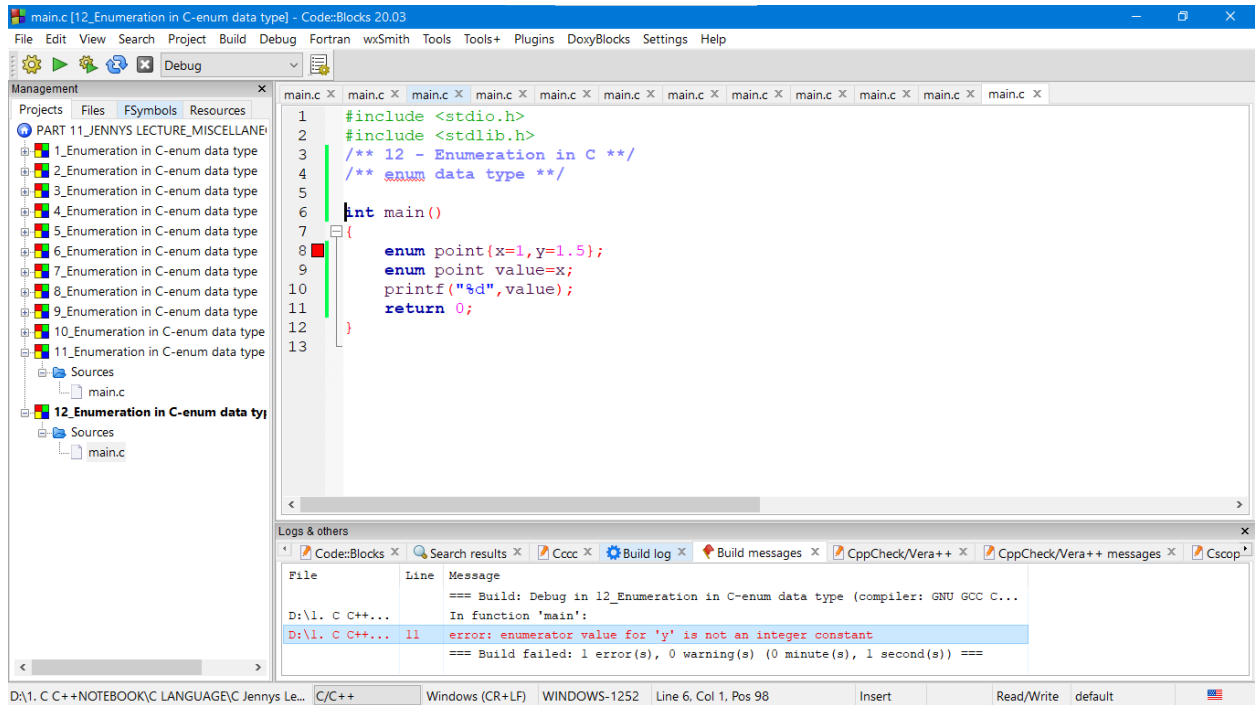
```
Today=1
Process returned 0 (0x0)   execution time : 0.044 s
Press any key to continue.
```

```

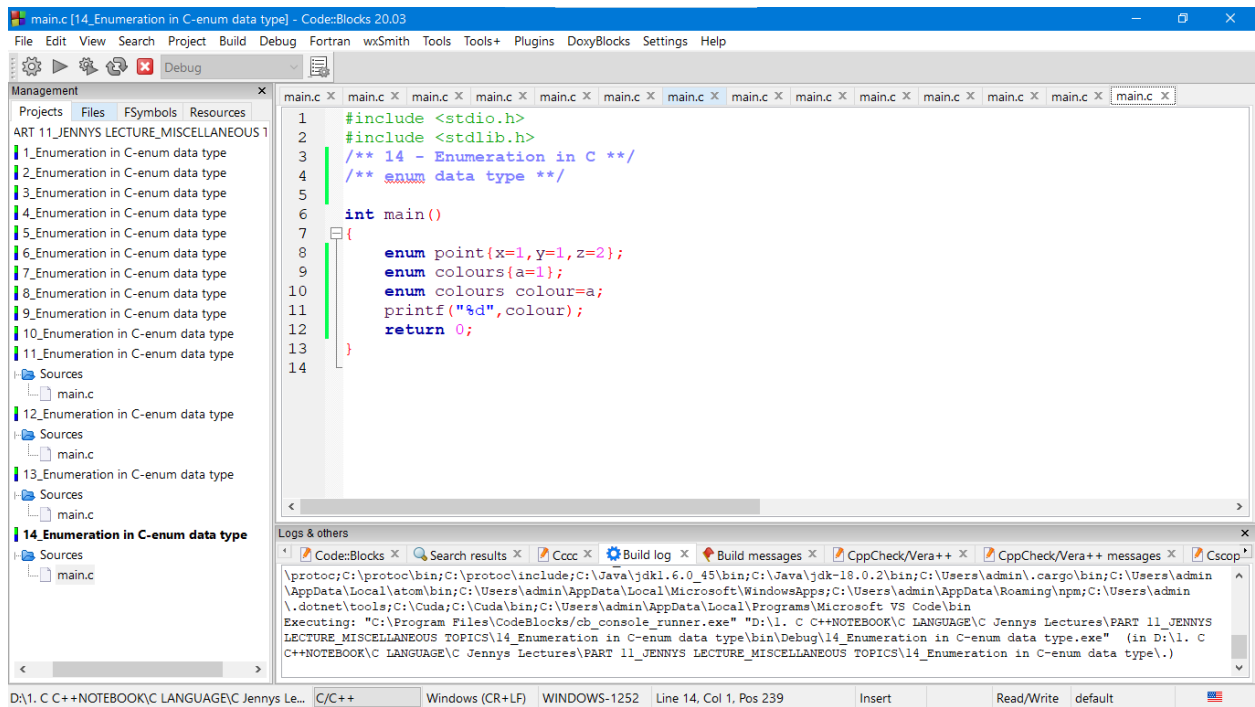
D:\1. C C++\NOTEBOOK\C LANGUAGE\C Jennys Lectures\PART 11_JENNY'S LECTURE_MISCELLANEOUS TOPICS\11_Enumerati...
Inside main today=2
Outside main today=1

Process returned 0 (0x0)   execution time : 0.036 s
Press any key to continue.

```







main.c [14\_Enumeration in C-enum data type] - Code::Blocks 20.03

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2\_Enumeration in C-enum data type

3\_Enumeration in C-enum data type

4\_Enumeration in C-enum data type

5\_Enumeration in C-enum data type

6\_Enumeration in C-enum data type

7\_Enumeration in C-enum data type

8\_Enumeration in C-enum data type

9\_Enumeration in C-enum data type

10\_Enumeration in C-enum data type

11\_Enumeration in C-enum data type

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main.c

12\_Enumeration in C-enum data type

Sources

main.c

13\_Enumeration in C-enum data type

Sources

main.c

14\_Enumeration in C-enum data type

Sources

main.c

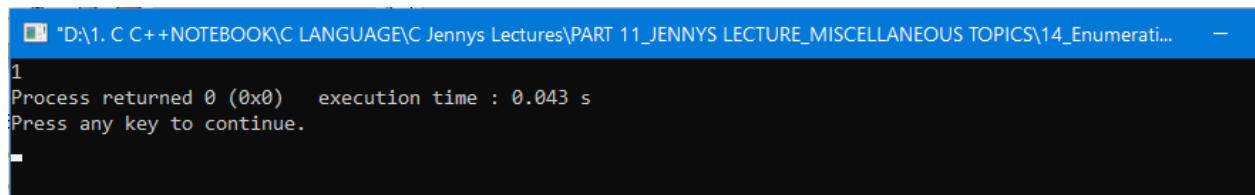
```
1 #include <stdio.h>
2 #include <stdlib.h>
3 /** 14 - Enumeration in C **/
4 /** enum data type **/
5
6 int main()
7 {
8     enum point{x=1,y=1,z=2};
9     enum colours{a=1};
10    enum colours colour=a;
11    printf("%d", colour);
12    return 0;
13 }
14
```

Logs & others

Code::Blocks Search results Cccc Build log Build messages CppCheck/Ver++ CppCheck/Ver++ messages Cscope

Executing: "C:\Program Files\CodeBlocks\cb\_console\_runner.exe" "D:\1. C C++\NOTEBOOK\C LANGUAGE\C Jennys Lectures\PART 11\_JENNY'S LECTURE\_MISCELLANEOUS TOPICS\14\_Enumeration in C-enum data type\bin\Debug\14\_Enumeration in C-enum data type.exe" (in D:\1. C C++\NOTEBOOK\C LANGUAGE\C Jennys Lectures\PART 11\_JENNY'S LECTURE\_MISCELLANEOUS TOPICS\14\_Enumeration in C-enum data type\)

D:\1. C C++\NOTEBOOK\C LANGUAGE\C Jennys Le... C/C++ Windows (CR+LF) WINDOWS-1252 Line 14, Col 1, Pos 239 Insert Read/Write default

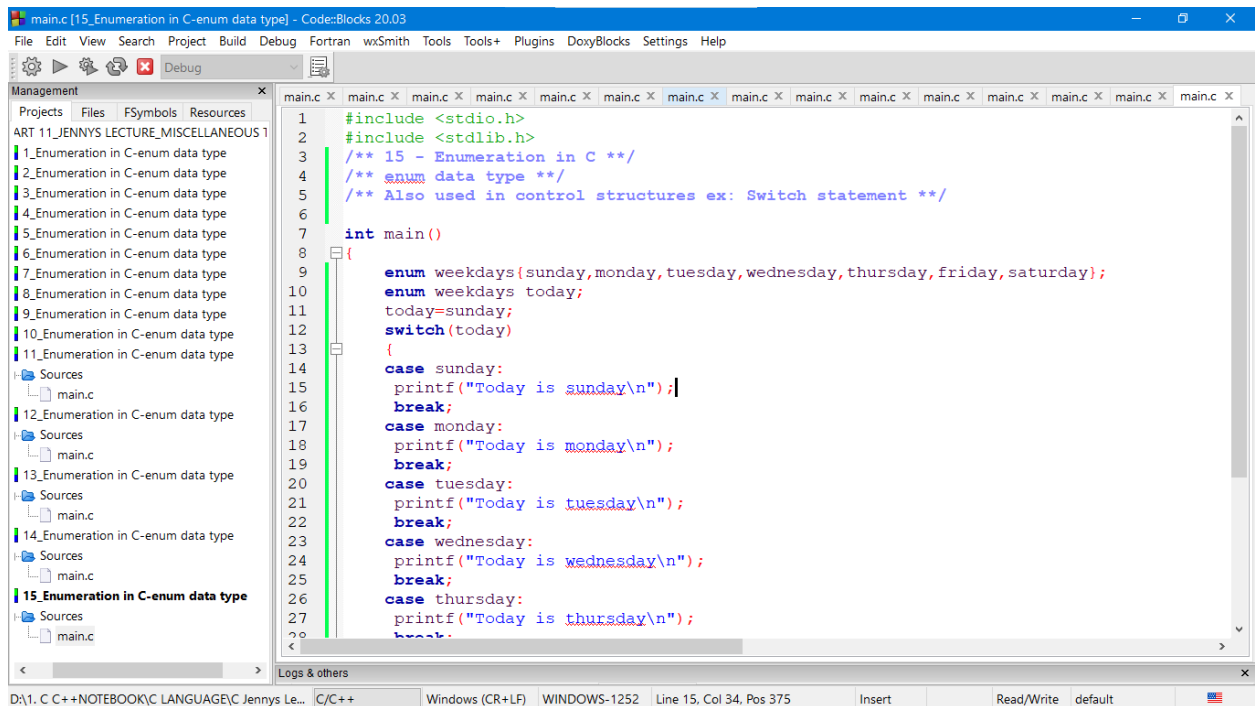


"D:\1. C C++\NOTEBOOK\C LANGUAGE\C Jennys Lectures\PART 11\_JENNY'S LECTURE\_MISCELLANEOUS TOPICS\14\_Enumerati...

1

Process returned 0 (0x0) execution time : 0.043 s

Press any key to continue.



main.c [15\_Enumeration in C-enum data type] - Code::Blocks 20.03

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6\_Enumeration in C-enum data type

7\_Enumeration in C-enum data type

8\_Enumeration in C-enum data type

9\_Enumeration in C-enum data type

10\_Enumeration in C-enum data type

11\_Enumeration in C-enum data type

Sources

main.c

12\_Enumeration in C-enum data type

Sources

main.c

13\_Enumeration in C-enum data type

Sources

main.c

14\_Enumeration in C-enum data type

Sources

main.c

15\_Enumeration in C-enum data type

Sources

main.c

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 /** 15 - Enumeration in C **/
4 /** enum data type **/
5 /** Also used in control structures ex: Switch statement **/
6
7 int main()
8 {
9     enum weekdays{sunday,monday,tuesday,wednesday,thursday,friday,saturday};
10    enum weekdays today;
11    today=sunday;
12    switch(today)
13    {
14        case sunday:
15            printf("Today is sunday\n");
16            break;
17        case monday:
18            printf("Today is monday\n");
19            break;
20        case tuesday:
21            printf("Today is tuesday\n");
22            break;
23        case wednesday:
24            printf("Today is wednesday\n");
25            break;
26        case thursday:
27            printf("Today is thursday\n");
28            break;
29    }
30 }
```

Logs & others

D:\1. C C++\NOTEBOOK\C LANGUAGE\C Jennys Le... C/C++ Windows (CR+LF) WINDOWS-1252 Line 15, Col 34, Pos 375 Insert Read/Write default

main.c [15\_Enumeration in C-enum data type] - Code::Blocks 20.03

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4\_Enumeration in C-enum data type

5\_Enumeration in C-enum data type

6\_Enumeration in C-enum data type

7\_Enumeration in C-enum data type

8\_Enumeration in C-enum data type

9\_Enumeration in C-enum data type

10\_Enumeration in C-enum data type

11\_Enumeration in C-enum data type

Sources

main.c

12\_Enumeration in C-enum data type

Sources

main.c

13\_Enumeration in C-enum data type

Sources

main.c

14\_Enumeration in C-enum data type

Sources

main.c

15\_Enumeration in C-enum data type

Sources

main.c

```
12 switch(today)
13 {
14     case sunday:
15         printf("Today is sunday\n");
16         break;
17     case monday:
18         printf("Today is monday\n");
19         break;
20     case tuesday:
21         printf("Today is tuesday\n");
22         break;
23     case wednesday:
24         printf("Today is wednesday\n");
25         break;
26     case thursday:
27         printf("Today is thursday\n");
28         break;
29     case friday:
30         printf("Today is friday\n");
31         break;
32     case saturday:
33         printf("Today is saturday\n");
34         break;
35     }
36     return 0;
37 }
38
```

Logs & others

D:\1. C C++\NOTEBOOK\C LANGUAGE\C Jennys Le... C/C++ Windows (CR+LF) WINDOWS-1252 Line 15, Col 34, Pos 375 Insert Read/Write default

"D:\1. C C++\NOTEBOOK\C LANGUAGE\C Jennys Lectures\PART 11\_JENNY'S LECTURE\_MISCELLANEOUS TOPICS\15\_Enumerati...

Today is sunday

Process returned 0 (0x0) execution time : 0.041 s

Press any key to continue.

main.c [16\_Enumeration in C-enum data type] - Code::Blocks 20.03

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3\_Enumeration in C-enum data type

4\_Enumeration in C-enum data type

5\_Enumeration in C-enum data type

6\_Enumeration in C-enum data type

7\_Enumeration in C-enum data type

8\_Enumeration in C-enum data type

9\_Enumeration in C-enum data type

10\_Enumeration in C-enum data type

11\_Enumeration in C-enum data type

Sources

main.c

12\_Enumeration in C-enum data type

Sources

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Sources

main.c

14\_Enumeration in C-enum data type

Sources

main.c

15\_Enumeration in C-enum data type

Sources

main.c

16\_Enumeration in C-enum data type

Sources

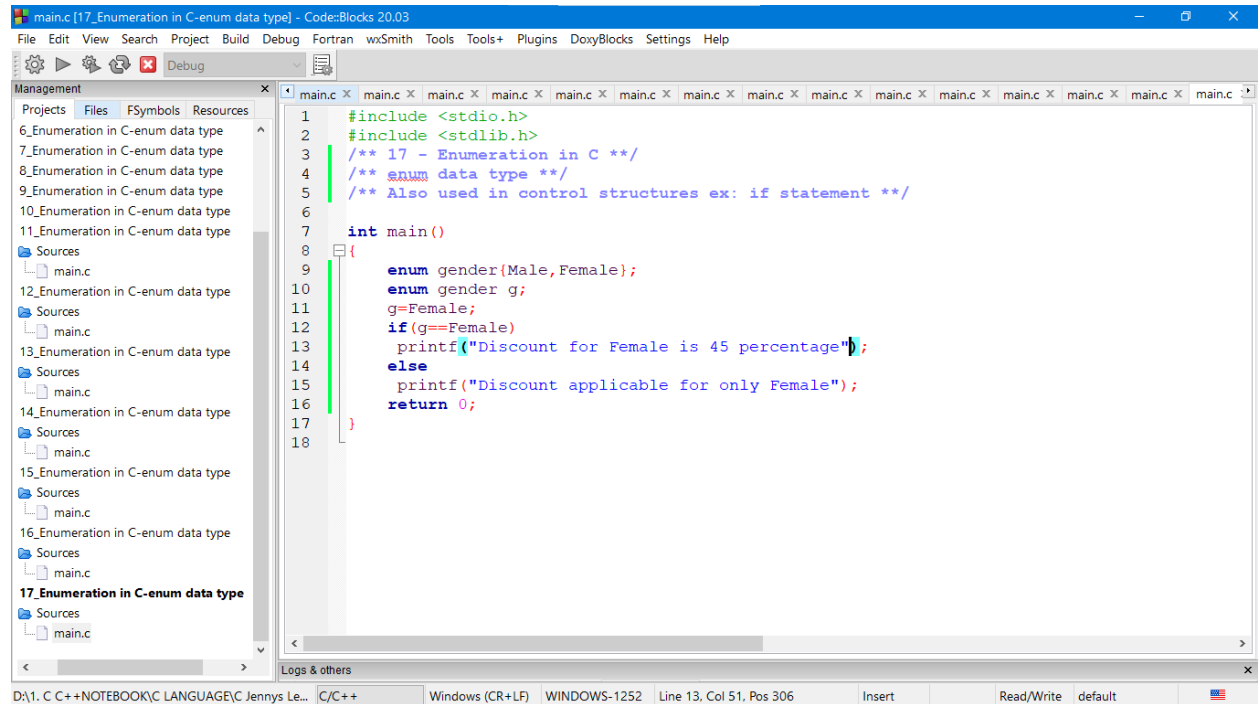
main.c

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 /** 16 - Enumeration in C **/
4 /** enum data type **/
5 /** Also used in control structures ex: if statement **/
6
7 int main()
8 {
9     enum weekdays{sunday,monday,tuesday,wednesday,thursday,friday,saturday};
10    enum weekdays today;
11    today=sunday;
12    if(today==sunday)
13        printf("Today is sunday");
14    else
15        printf("Today is not sunday");
16    return 0;
17 }
18
```

Logs & others

D:\1. C C++\NOTEBOOK\C LANGUAGE\C Jennys Le... C/C++ Windows (CR+LF) WINDOWS-1252 Line 11, Col 18, Pos 292 Insert Read/Write default

```
"D:\1. C C++NOTEBOOK\C LANGUAGE\C Jennys Lectures\PART 11_JENNYS LECTURE_MISCELLANEOUS TOPICS\16_Er
Today is sunday
Process returned 0 (0x0)   execution time : 0.043 s
Press any key to continue.
```



```
"D:\1. C C++NOTEBOOK\C LANGUAGE\C Jennys Lectures\PART 11_JENNYS LECTURE_MISCELLANEOUS TOPICS\17_Enumerati...
Discount for Female is 45 percentage
Process returned 0 (0x0)   execution time : 0.042 s
Press any key to continue.
```