

C-139 \Rightarrow Enum in C

Technical Interview Questions & Answers

Question 1

```
#include <stdio.h>
enum xenum { C, CPP, Java };

main()
{
    enum xenum var;
    printf("%d", sizeof(var));
    return 0;
}
```

O/p \Rightarrow 4 bytes.

* Enum will take only one value at a time from set of values and that value will always be an integer value and so it takes 4 bytes in 64 bit machine.

Question 2

```
#include <stdio.h>
enum xenum { C, CPP, Java };
enum yenum { C, CPP, Java, xenum };
main()
{
    enum yenum var;
    printf("%d", sizeof(var));
    return 0;
}
```

O/p \Rightarrow

Date _____
Page _____

* enum within enum is allowed; but duplication of enum is not allowed under same scope.

Question 3:-

```
#include <stdio.h>
enum xenum { C, CPP, Java };
enum yenum { xenum };

main()
{
    enum yenum var;
    printf ("%d", size of (var));
    return 0;
}
```

o/p =>

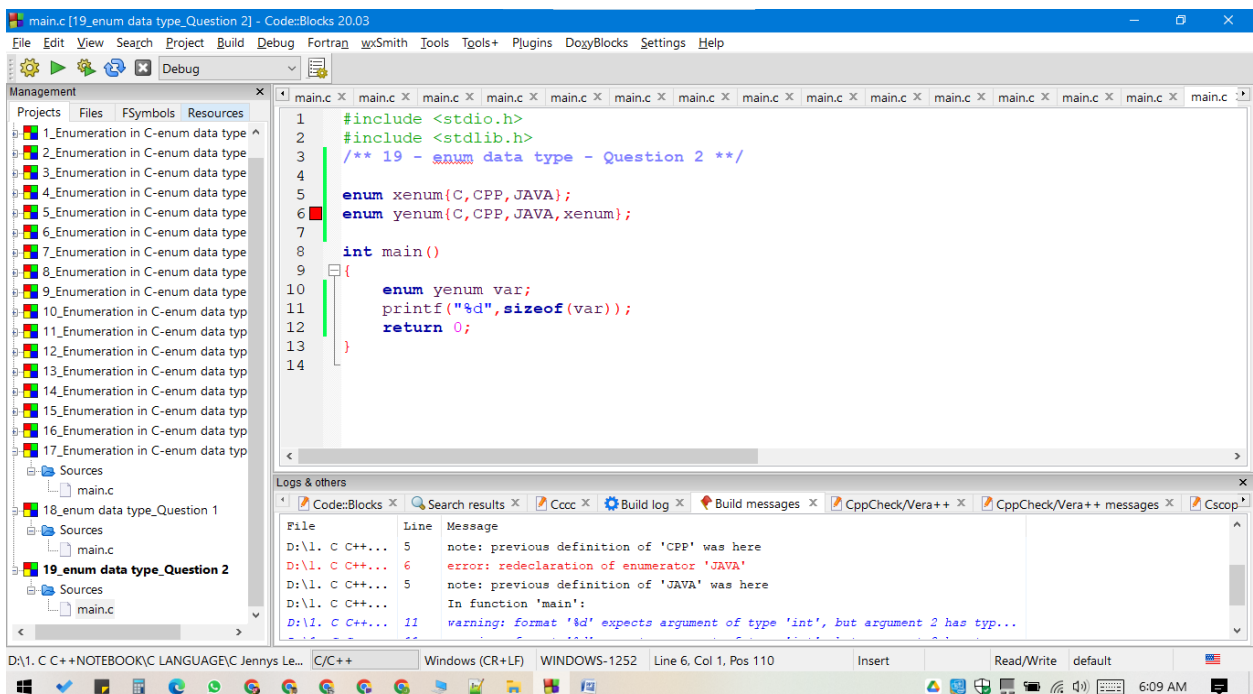
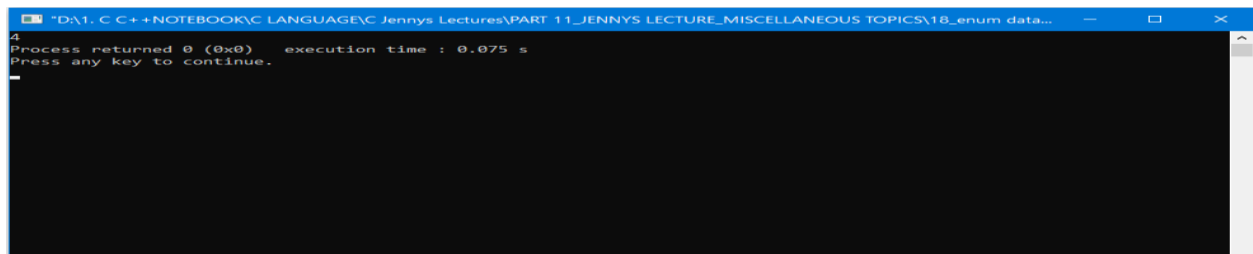
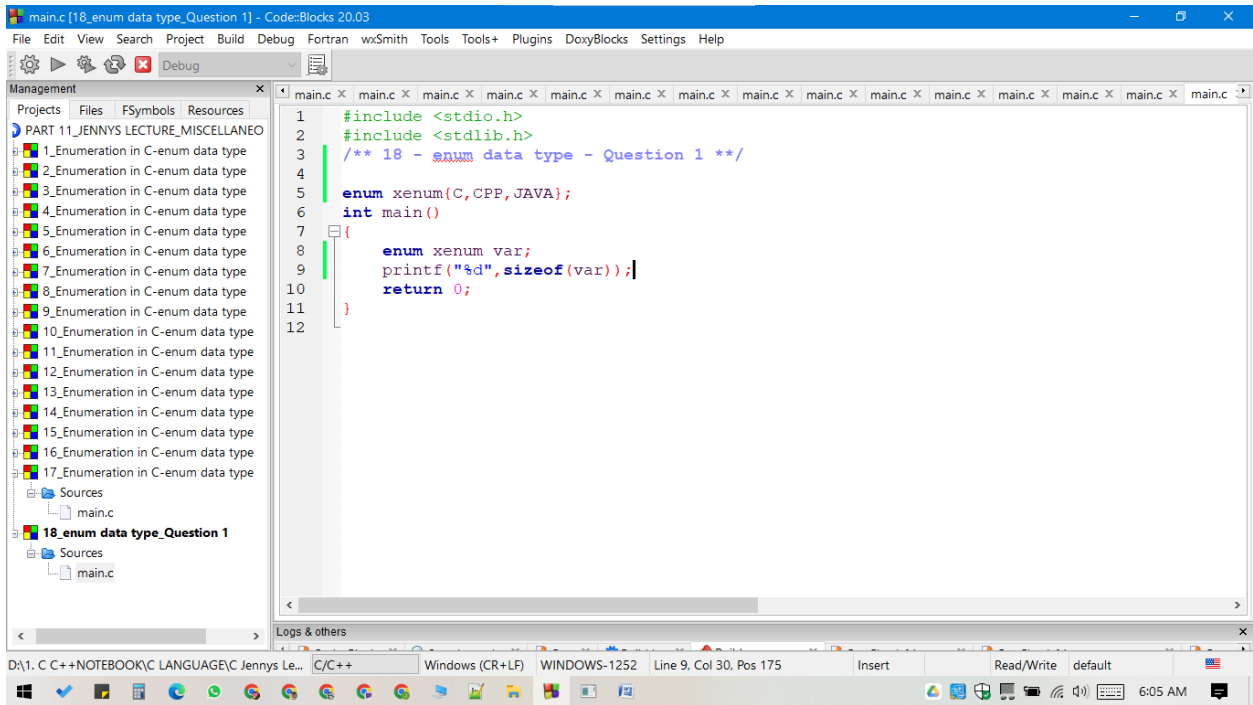
Question 4:-

```
typedef enum {
    male, female } gender;
```

```
int main()
{
    gender var = female;
    printf ("%d", var);
    return 0;
}
```

o/p -> 1

* When 'typedef' is used in any user defined data type or primitive data type then at the time of variable declaration we don't need to write the datatype name [struct struct-name, ...] instead the 'typedef' name we can write. Here 'gender' is typedef name.



main.c (19_enum data type_Question 2) - Code::Blocks 20.03

File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help

Management

Projects Files FSymbols Resources

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 typ
11_Enumeration in C-enum data typ
12_Enumeration in C-enum data typ
13_Enumeration in C-enum data typ
14_Enumeration in C-enum data typ
15_Enumeration in C-enum data typ
16_Enumeration in C-enum data typ
17_Enumeration in C-enum data typ
Sources
main.c
18_enum data type_Question 1
Sources
main.c
19_enum data type_Question 2
Sources
main.c
20_enum data type_Question 3
Sources
main.c

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 /** 20 - enum data type - Question 2 */
4
5 enum xenum{C, CPP, JAVA};
6 enum yenum{C, CPP, JAVA, xenum};
7
8 int main()
9 {
10     enum yenum var;
11     printf("%d", sizeof(var));
12     return 0;
13 }
```

Logs & others

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```
4
Process returned 0 (0x0)   execution time : 0.043 s
Press any key to continue.
```

main.c [21_enum data type_Question 4] - Code::Blocks 20.03

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Management

Projects Files FSymbols Resources

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 typ
11_Enumeration in C-enum data typ
12_Enumeration in C-enum data typ
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15_Enumeration in C-enum data typ
16_Enumeration in C-enum data typ
17_Enumeration in C-enum data typ
Sources
main.c
18_enum data type_Question 1
Sources
main.c
19_enum data type_Question 2
Sources
main.c
20_enum data type_Question 3
Sources
main.c
21_enum data type_Question 4
Sources
main.c

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 /** 21 - enum data type - Question 4 */
4
5 typedef enum{male, female}gender;
6
7 int main()
8 {
9     gender var=female;
10    printf("%d", var);
11    return 0;
12 }
```

Logs & others

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```
"D:\1. C C++\NOTEBOOK\C LANGUAGE\C Jennys Lectures\PART 11_JENNYS LECTURE_MISCELLANEOUS TOPICS\21_enum data...
1
Process returned 0 (0x0)   execution time : 0.031 s
Press any key to continue.
```