

MPLAB X IDE v5.40 - exercise5: default

File Edit View Navigate Source Refactor Production Debug Team Tools Window Help

Search (Ctrl+F)

PC: 0x0 nov2dc : W:\D0 : bank 0

How do I? (keyword(s))

Files Cla... Ser... Res... Available Resources Pin Module System Module Interrupt Module DMA Manager main.c

Source History

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <string.h>
4 #include <math.h>
5 #include <conio.h>
6
7 #include "mcc_generated_files/mcc.h"
8
9 /*
10  * | | | | | Main application
11  */
12 void main(void)
13 {
14     // Initialize the device
15     SYSTEM_Initialize();
16
17     #1
18
19     int i;
20     printf("\n\r\n\r The numbers divisible by 3 and 7 are: \n\r");
21     for(i=1; i<=1000; i++)
22     {
23         if(i%3==0 || i%7==0)
24         {
25             printf("%d \n\r", i);
26         }
27     }
28
29     #2
30
31     /*
32      *
33      */
34     int n=0;
35
36     for(n=0; n<=12; n++)
37     {
38
39         switch(n)
40         {
41             case 0:
42                 break;
43             case 1:
44                 break;
45             case 2:
46                 break;
47             case 3:
48                 break;
49             case 4:
50                 break;
51             case 5:
52                 break;
53             case 6:
54                 break;
55             case 7:
56                 break;
57             case 8:
58                 break;
59             case 9:
60                 break;
61             case 10:
62                 break;
63             case 11:
64                 break;
65             case 12:
66                 break;
67         }
68     }
69 }
```

Pin Manager: Package View

CHIP 16K42

RA0 RA1 RA2 RA3 RA4 RA5 RA6 RA7 RA8 RA9 RA10 RA11 RA12 RA13 RA14 RA15 RA16 RA17 RA18 RA19 RA20 RA21 RA22 RA23 RA24 RA25 RA26 RA27 RA28 RA29 RA30 RA31 RA32 RA33 RA34 RA35 RA36 RA37 RA38 RA39 RA40 RA41 RA42 RA43 RA44 RA45 RA46 RA47 RA48 RA49 RA50 RA51 RA52 RA53 RA54 RA55 RA56 RA57 RA58 RA59 RA60 RA61 RA62 RA63 RA64 RA65 RA66 RA67 RA68 RA69 RA70 RA71 RA72 RA73 RA74 RA75 RA76 RA77 RA78 RA79 RA80 RA81 RA82 RA83 RA84 RA85 RA86 RA87 RA88 RA89 RA90 RA91 RA92 RA93 RA94 RA95 RA96 RA97 RA98 RA99

COM4 - PuTTY

825
826
828
831
833
834
837
840
843
846
847
849
852
854
855
858
861
864
867
868
870
873
875
876
879
882
885
888
889
891
894
896
897
900
903
906
909
910
912
915
917
918
921
924
927
930
931
933
936
938
939
942
945
948
951
952
954
957
959
960
963
966
969
972
973
975
978
980
981
984
987
990
993
994
996
999

exercise... main() - ... Versions

MPLAB® Code Configurator (Plugin) v4.0.2

Libraries

Microchip Technology, Inc.

Microcontrollers and Peripherals

8-bit AVR MCUs (v2.4.0)

MCP190XX (v1.4.0)

PIC10 / PIC12 / PIC16 / PIC18 MCUs (v1.4.0)

PIC24 / dsPIC33 / PIC32MM MCUs (v1.4.0)

Software

8-bit Bootloader Library

16-bit Bootloader

AVR-IoT AWS Sensor Node

AVR-IoT Google Sensor Node

Board Support Library

CryptoAuthLibrary

Data Encryption Routines

FatFs Library

Foundation Services Library (v0.2.2)

IEC60730 Diagnostic Library 8-bit AVR

IEC60730 Diagnostic Library 8-bit PIC

LIN Library

MCP9802X

Output x Notifications Notifications [MCC] Pin Manager: Grid View

MPLAB® Code Configurator x exercise4 (Build, Export Hex) x

Memory Summary:

Memory Space	Used	Available	Percentage
Program space	used 0A4h (3494) of 10000h bytes	(5.3%)	
Data space	used 52h (146) of 1000h bytes	(3.6%)	
Configuration bits	used 5h (5) of 5h words	(100.0%)	
EEPROM space	used 0h (0) of 400h bytes	(0.0%)	
ID Location space	used 10h (16) of 10h bytes	(100.0%)	

make[2]: Leaving directory 'C:/MinGW/msys/1.0/home/manmo/Phys1600/exercise4.X'

make[1]: Leaving directory 'C:/MinGW/msys/1.0/home/manmo/Phys1600/exercise4.X'

BUILD SUCCESSFUL (total time: 3s)

Wrote hex image to "F:\exercise5.hex".

993
994
996
999

MPLAB X IDE v5.40 - exercise5: default

File Edit View Navigate Source Refactor Production Debug Team Tools Window Help

default PC: 0x0 n ovz dc c : W:0x0 : bank 0 How do I? Keyword(s)

Files Cla... Ser... Res... Available Resources x Pin Module x System Module x Interrupt Module x DMA Manager x main.c x

Assignment_2
Assignment1
Exercise0
Exercise1
Exercise2
Exercise3
Exercise4
Header Files
Important Files
Linker Files
Source Files
main.c
MCC Generated Files
Libraries
Loadables
exercise5
Header Files
Important Files
Linker Files
Source Files
main.c
MCC Generated Files
Libraries
Loadables
First
testsimulator

exercise5... main() - ... Version... x

Versions

MPLAB® Code Configurator (Plugin) v4.0.2

Libraries

Microchip Technology, Inc.

Microcontrollers and Peripherals

8-bit AVR MCUs (v2.4.0)

MCP190XX (v1.4.0)

PIC10 / PIC12 / PIC16 / PIC18 MCUs (v1.4.0)

PIC24 / dsPIC33 / PIC32MM MCUs (v1.4.0)

Software

8-bit Bootloader Library

16-bit Bootloader

AVR-IoT AWS Sensor Node

AVR-IoT Google Sensor Node

Board Support Library

CryptoAuthLibrary

Data Encryption Routines

Fatfs Library

Foundation Services Library (v0.2.2)

IEC60730 Diagnostic Library 8-bit AVR

IEC60730 Diagnostic Library 8-bit PIC

LIN Library

MCP802X

```
25     printf("%d\n\r",i);
26   }
27 }
28
29 //
30 #2
31
32
33
34 int n=0;
35
36 for(n=0;n<=12;n++)
37 {
38
39   switch(n)
40   {
41     case 10:
42     case 0: printf("\n\rNumber is %d Limit",n);
43             break;
44
45     case 2:
46     case 4:
47     case 6:
48     case 8: printf("\n\r Number is %d Even",n);
49             break;
50
51     case 1:
52     case 3: printf("\n\r Number is %d Odd",n);
53             break;
54     case 7: printf("\n\r Bingo");
55             break;
56     default: printf("\n\r Bingo");
57             break;
58   }
59
60   while (1)
61   {
62     // Add your application code
63   }
```

main() for(n=0;n<=12;n++) switch(n) case 0 printf("\n\rNumber is %d Limit")

Output x Notifications x Notifications [MCC] x Pin Manager: Grid View

MPLAB® Code Configurator x exercise4 (Build, Export Hex) x

Memory Summary:

Memory Space	Used	Free	Total	Percentage
Program space	464h (3430) of 10000h bytes	5356h	10000h	(34.3%)
Data space	94h (148) of 1000h bytes	806h	1000h	(3.6%)
Configuration bits	5h (5) of 5h words	0h	5h	(100.0%)
EEPROM space	0h (0) of 400h bytes	400h	400h	(0.0%)
ID Location space	10h (16) of 10h bytes	0h	10h	(100.0%)

make[2]: Leaving directory 'C:/MinGW/msys/1.0/home/manmo/Phys1600/exercise4.X'

make[1]: Leaving directory 'C:/MinGW/msys/1.0/home/manmo/Phys1600/exercise4.X'

BUILD SUCCESSFUL (total time: 3s)

Wrote hex image to "F:\exercise5.hex".

Pin Manager: Package View

CHIP 16K42

RC0 RC1 RC2 RC3 RC4

CLKOUT

VSS

VDD

RE2

RE1

RE0

RAS

RA4

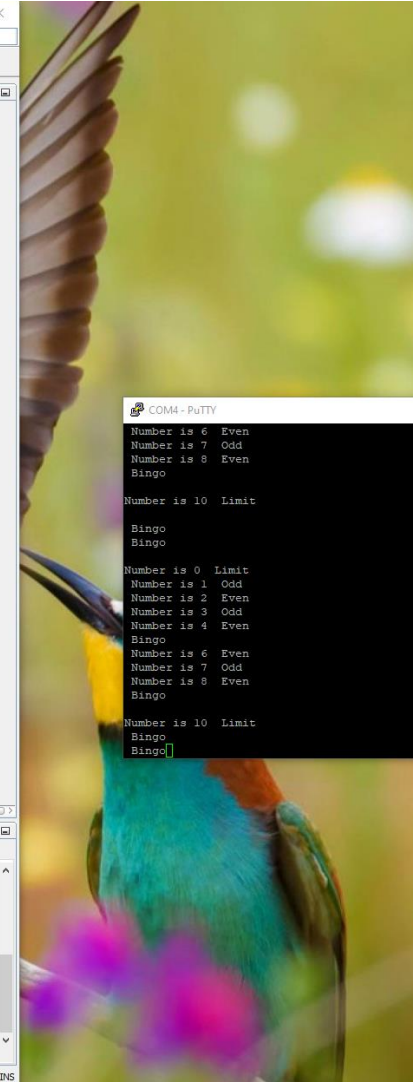
RA3

RA2

RA1

RA0

WCR



COM4 - PuTTY

```
Number is 6 Even
Number is 7 Odd
Number is 8 Even
Bingo

Number is 10 Limit
Bingo
Bingo

Number is 0 Limit
Number is 1 Odd
Number is 2 Even
Number is 3 Odd
Number is 4 Even
Bingo
Bingo
Number is 6 Even
Number is 7 Odd
Number is 8 Even
Bingo

Number is 10 Limit
Bingo
Bingo
```