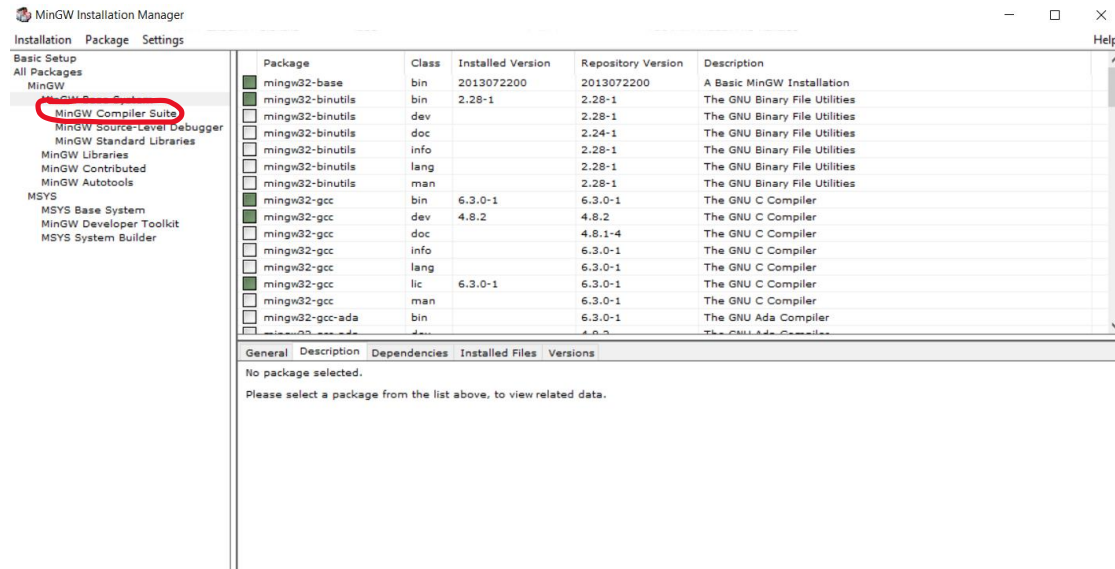


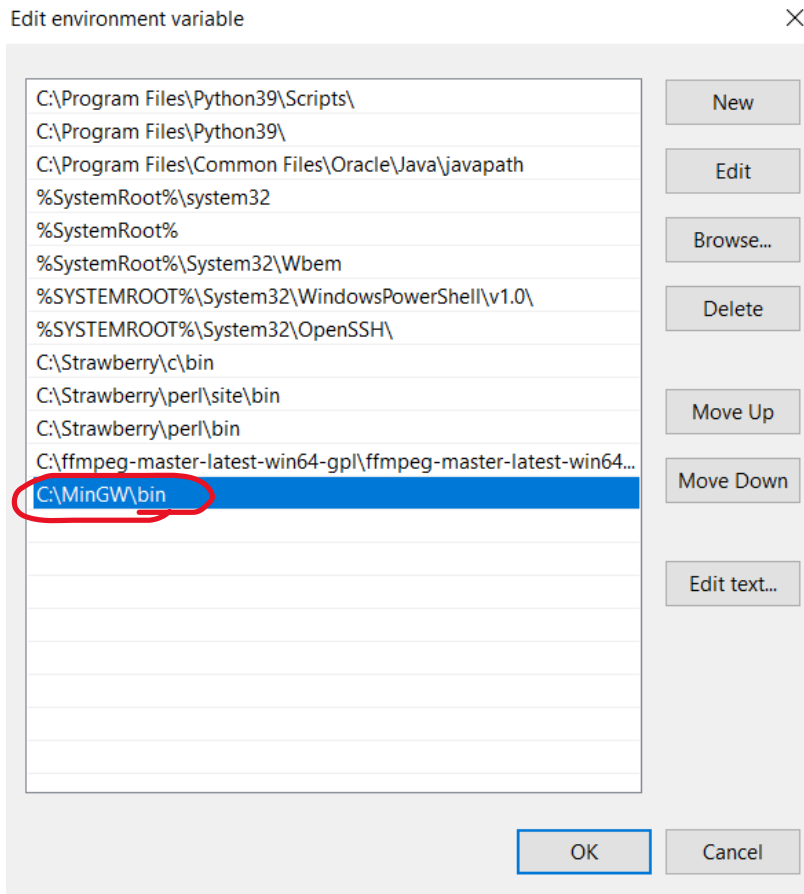
1. Install Minimalist GNU for Windows - Link: <https://sourceforge.net/projects/mingw/>

A native Windows port of the GNU Compiler Collection (GCC)



Select MinGW Base System (Mark for insatallation). Then select Installation > Apply Changes.

2. Add path of gcc.exe to Environmental Variables >System Variables. Then restart your system.



3. Download and unzip nasm.2.10.09.7z (Download from online.yasar.edu.tr - Lab4) to your Desktop
 - Create a first.asm file in NASM directory. (first is name of example program you can change name Ex. Lab4_1.asm). Write your code in it.
 - Then open Windows Powershell in NASM directory.
 - Run command `.\makefile.bat first`
 - After this operation it creates an executable file. (`first.exe`)
 - You can test your program by calling `.\first.exe` in Powershell.

```
Windows PowerShell
PS C:\Users\hp\Desktop\nasm-2.10.09> .\makefile.bat first
C:\Users\hp\Desktop\nasm-2.10.09>nasm -f win32 first.asm
C:\Users\hp\Desktop\nasm-2.10.09>gcc -o first.exe first.obj driver.c asm_io.obj
driver.c: In function 'main':
driver.c:4:16: warning: implicit declaration of function 'asm_main'; did you mean 'main'? [-Wimplicit
on]
    ret_status = asm_main();
                  ^~~~~~
                  main
PS C:\Users\hp\Desktop\nasm-2.10.09> .\first.exe
Enter a number: 10
Enter another number: 20
Register Dump # 1
EAX = 0000001E EBX = 0000001E ECX = 2BA2554A EDX = 00AE1648
ESI = 0000002B EDI = 00AE0D4C EBP = 0061FEB8 ESP = 0061FE98
EIP = 004015F7 FLAGS = 0206 PF
Memory Dump # 2 Address = 00403030
00403030 59 6F 75 20 65 6E 74 65 72 65 64 20 00 20 61 6E "You entered ? an"
00403040 64 20 00 2C 20 74 68 65 20 73 75 6D 20 6F 66 20 "d ?, the sum of "
You entered 10 and 20, the sum of these is 30
PS C:\Users\hp\Desktop\nasm-2.10.09> .\first.exe
Enter a number: 10
Enter another number: 20
Register Dump # 1
EAX = 0000001E EBX = 0000001E ECX = E620AB90 EDX = 001F1648
ESI = 0000002B EDI = 001F0D4C EBP = 0061FEB8 ESP = 0061FE98
EIP = 004015F7 FLAGS = 0206 PF
Memory Dump # 2 Address = 00403030
00403030 59 6F 75 20 65 6E 74 65 72 65 64 20 00 20 61 6E "You entered ? an"
00403040 64 20 00 2C 20 74 68 65 20 73 75 6D 20 6F 66 20 "d ?, the sum of "
You entered 10 and 20, the sum of these is 30
PS C:\Users\hp\Desktop\nasm-2.10.09>
```