Lab-1: CSE 402 Compiler Design ***C program***

```
#include<stdio.h>
int main()
{
  printf("Hello World!\n");
 return 0;
}
                                    ***Commands***
1) .c file to direct .exe file: gcc input_filename.c
 creates an executable file a.exe
 Run it:
        .\a
        a.exe
2) Renaming the executable file : gcc -o output_filename input_filename.c
  creates an executable file output filename.exe
  Run it:
       .\outputfilename
       outputfilename.exe
3)
i) Preprocessor:
gcc -E input_filename.c > output_filename.i
Creates a modified source file output filename.i
ii)Compiler:
gcc -S -masm=intel output_filename.i
Creates an assembly file output filename.s
iii)Assembler:
as -o output_filename.o output_filename.s
Creates an object file output filename.o
To see whats inside the object file:
Objdump -M intel -d output_filename.o > output_filename.dump
iv)Linker
gcc output_filename.o -o output_filename.exe
Or,
gcc output_filename.o -o output_filename
Creates an executable file output_filename.exe
v)Loader:
output_filename.exe
```

The Program Executes on Memory.