Daniyal Khan

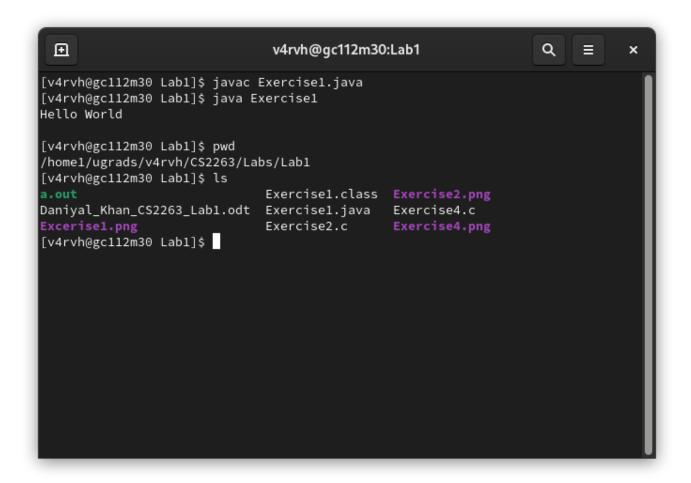
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CS2263

Lab 1

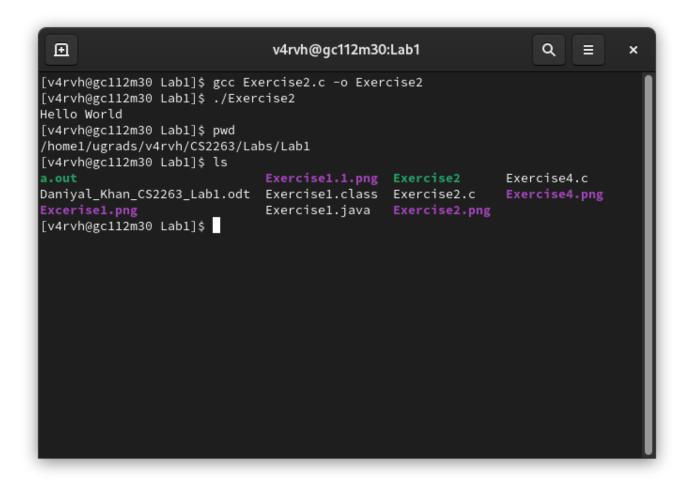
Exercise 1:

```
class Exercise1 {
    public static void main (String[] args) {
        System.out.println("Hello World\n");
    }
}
```



Exercise 2:

```
#include <stdio.h>
int main() {
printf("Hello World\n");
return 0;
}
```



Exercise 3:

The java compilation model takes human written source code as input and emits not machine code but something called "byte code". Byte code cannot be directly executed on a machine. Instead, it needs to be translated once again by another compiler to machine code. Byte code can run on any platform that has either a byte code compiler or virtual machine written for it. While in C language there is not such protability implied by the machine code.

To answer the question, **javac** compiles the code similar to the **gcc** command for c and c++. But the difference is that gcc produces an executable file whereas **javac** produces a bytecode which we run by the **java** command.

Referenced from this question on stackOverFlow:

https://stackoverflow.com/questions/8297832/how-does-c-differ-from-javas-compilation-model

Exercise 4:

```
#include <stdio.h>
#include <stdlib.h>
void printFib(int n);
int main() {
printFib(10);
putchar('\n');
return EXIT_SUCCESS;
}
void printFib(int n) {
int a = 0, b = 1, temp;
if (n \le 0) {
return;
}
printf("%d ", a);
for (int i = 1; i < n; i++) {</pre>
printf("%d ", b);
temp = a + b;
a = b;
b = temp;
}
}
```

