

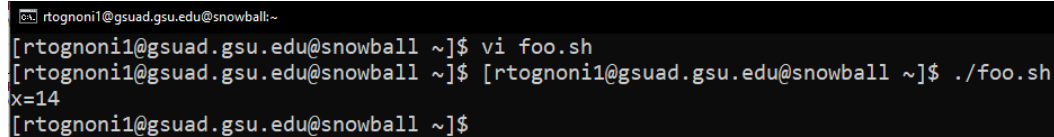
Robert Tognoni

CSC3320 System Level Programming

Lab Assignment 6 - Part 2 - **Post Lab**

Questions:

1) Attach a screenshot of the output in step 4.



```
rtognoni1@gsuad.gsu.edu@snowball:~  
[rtognoni1@gsuad.gsu.edu@snowball ~]$ vi foo.sh  
[rtognoni1@gsuad.gsu.edu@snowball ~]$ [rtognoni1@gsuad.gsu.edu@snowball ~]$ ./foo.sh  
x=14  
[rtognoni1@gsuad.gsu.edu@snowball ~]$
```

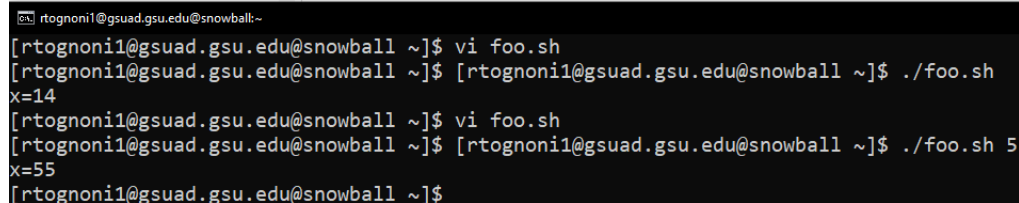
See google classroom attachment labeled Q1

2) Describe what does the shell script **foo.sh** do?

foo.sh sets x to 0 and i to 1 initially. A while loop with the condition of $i \leq 3$ will run and increment i. It also sets a variable s to i^2 and x is updated to $s + x$. The final result is $x = 14$ which is printed to output in the format "x={value of x}"

Part B:

Question:



```
rtognoni1@gsuad.gsu.edu@snowball:~  
[rtognoni1@gsuad.gsu.edu@snowball ~]$ vi foo.sh  
[rtognoni1@gsuad.gsu.edu@snowball ~]$ [rtognoni1@gsuad.gsu.edu@snowball ~]$ ./foo.sh  
x=14  
[rtognoni1@gsuad.gsu.edu@snowball ~]$ vi foo.sh  
[rtognoni1@gsuad.gsu.edu@snowball ~]$ [rtognoni1@gsuad.gsu.edu@snowball ~]$ ./foo.sh 5  
x=55  
[rtognoni1@gsuad.gsu.edu@snowball ~]$
```

See attached screenshot labeled QB3.

Part C:

Question:

```
rtognoni1@gsuad.gsu.edu@snowball:~  
[rtognoni1@gsuad.gsu.edu@snowball ~]$ ./foo.sh  
please input a number  
11  
x=506  
[rtognoni1@gsuad.gsu.edu@snowball ~]$
```

See attached screenshot labeled QC4.

Part D:

Question: Then put the source code of foo.java in your answer sheet.

```
rtognoni1@gsuad.gsu.edu@snowball:~  
[rtognoni1@gsuad.gsu.edu@snowball ~]$ javac foo.java  
[rtognoni1@gsuad.gsu.edu@snowball ~]$ java foo  
please input a number  
19  
x=2470  
[rtognoni1@gsuad.gsu.edu@snowball ~]$
```

```
import java.util.Scanner;  
class foo {  
    public static void main(String[] args) {  
        Scanner scan = new Scanner(System.in);  
        int x = 0;  
        int i = 1;  
        System.out.println("please input a number ");
```

```

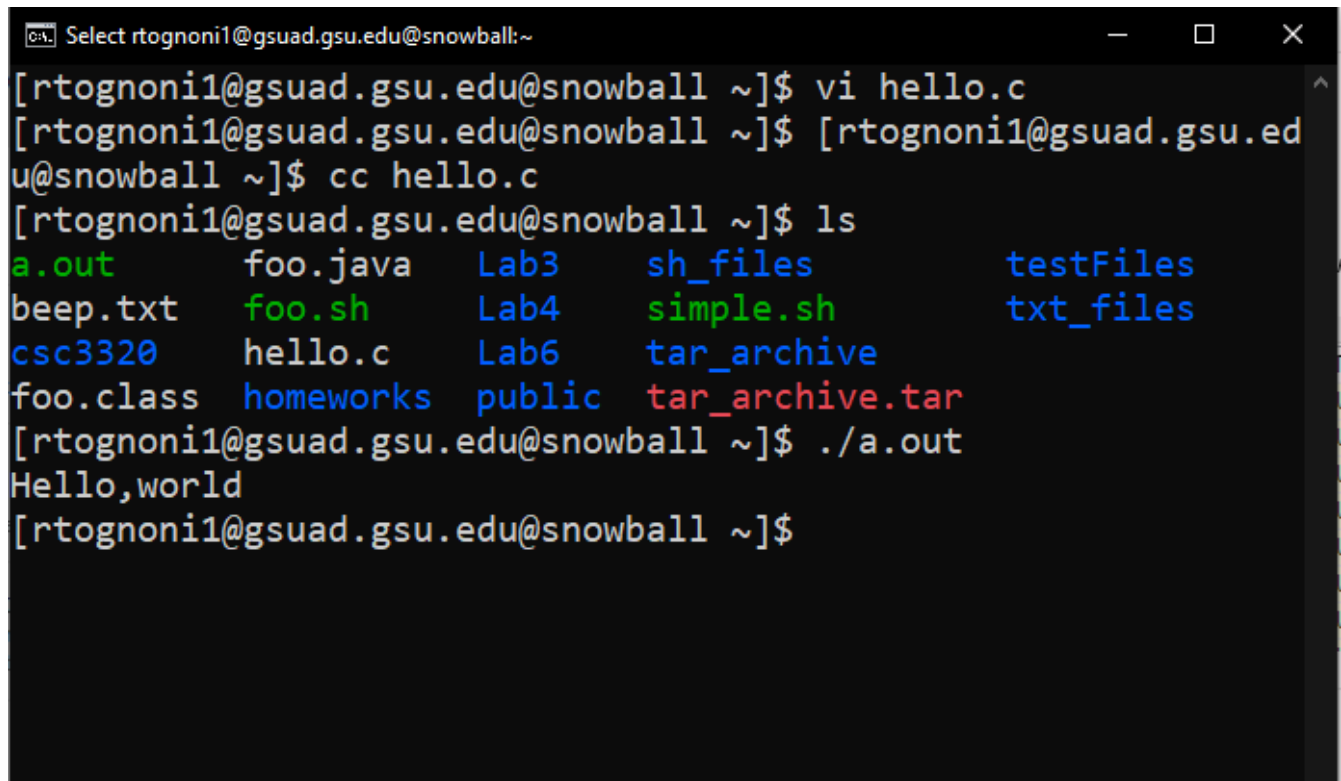
    int num = Integer.parseInt(scan.nextLine());
    while (i <= num) {
        int s = i*i;
        x = s + x;
        i++;
    }
    System.out.println("x=" + x);
}
}

```

Part E:

Questions:

1) Attach a screenshot of the output in step 4.



```

Select rtognoni1@gsuad.gsu.edu@snowball:~
[rtognoni1@gsuad.gsu.edu@snowball ~]$ vi hello.c
[rtognoni1@gsuad.gsu.edu@snowball ~]$ [rtognoni1@gsuad.gsu.ed
u@snowball ~]$ cc hello.c
[rtognoni1@gsuad.gsu.edu@snowball ~]$ ls
a.out      foo.java   Lab3       sh_files   testFiles
beep.txt   foo.sh     Lab4       simple.sh  txt_files
csc3320    hello.c    Lab6       tar_archive
foo.class  homeworks public      tar_archive.tar
[rtognoni1@gsuad.gsu.edu@snowball ~]$ ./a.out
Hello,world
[rtognoni1@gsuad.gsu.edu@snowball ~]$

```

2) Try following command to compile and link **hello.c** again. And tell what new file is generated after this command?

\$cc -o hello hello.c

Answer: This generates a file labeled "hello" with no file type.

3) Try command below and attach a screenshot of the output.

`$/hello`

```
[rtognoni1@gsuad.gsu.edu@snowball ~]$ cc -o hello hello.c
[rtognoni1@gsuad.gsu.edu@snowball ~]$ ls
a.out      foo.java  homeworks public      tar_archive.tar
beep.txt   foo.sh    Lab3       sh_files   testFiles
csc3320    hello     Lab4       simple.sh  txt_files
foo.class  hello.c   Lab6       tar_archive
[rtognoni1@gsuad.gsu.edu@snowball ~]$ ./hello
Hello,world
[rtognoni1@gsuad.gsu.edu@snowball ~]$
```

4) Now write a new C program named as **myName.c** based on **hello.c**. In this program, print out your first name and last name instead of "Hello,world". For example, the output could be "My name is Yuan Long".

Execute your **myName.c** and attach a screenshot of the output. Then write the source code

of **myName.c** in your answer sheet and upload your file **myName.c** to classroom.

```
rtognoni1@gsuad.gsu.edu@snowball:~
[rtognoni1@gsuad.gsu.edu@snowball ~]$ gcc -o myName.out myName.c
[rtognoni1@gsuad.gsu.edu@snowball ~]$ ./myName.out
My name is Robert Tognoni
[rtognoni1@gsuad.gsu.edu@snowball ~]$
```

```
#include <stdio.h>
```

```
int main(void)
```

```
{
    printf("My name is Robert Tognoni\n");
    return 0;
```

