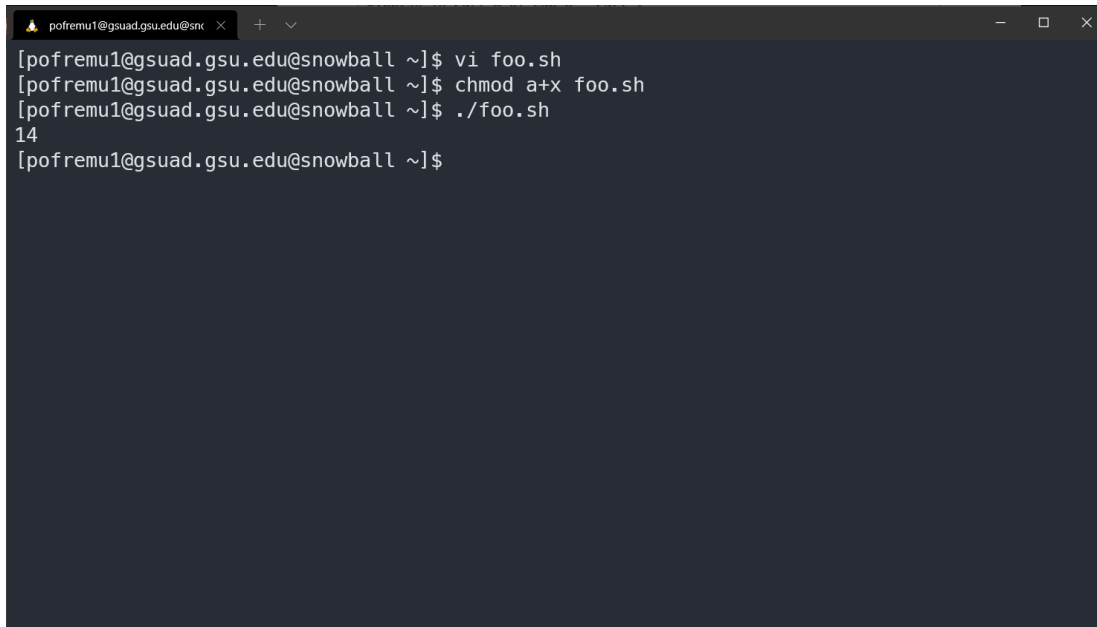


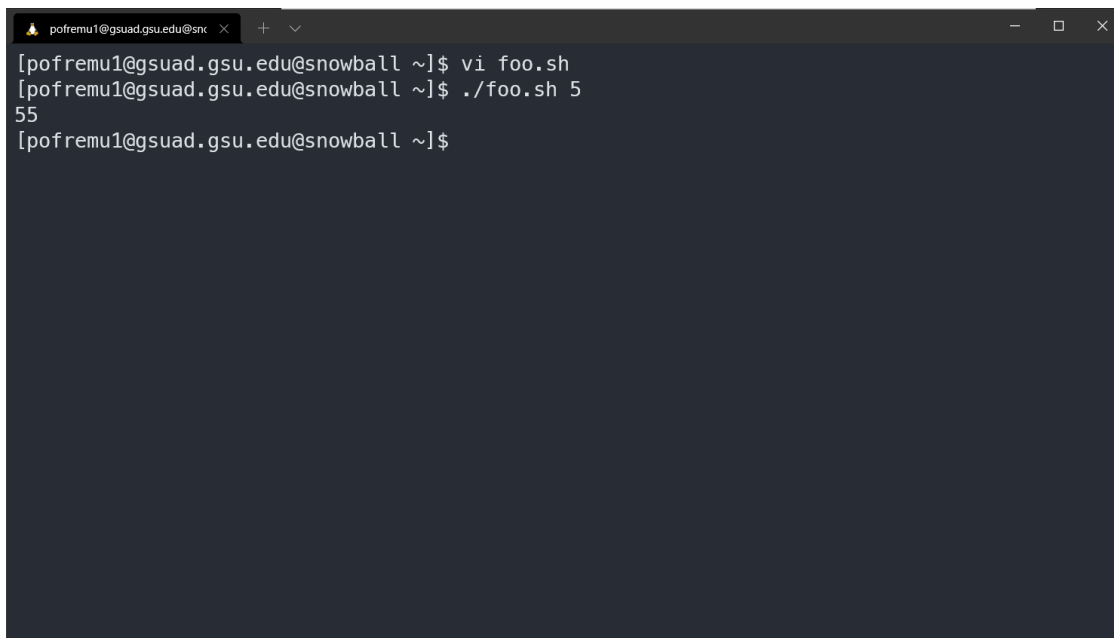
**Part A**

1)

A terminal window with a dark background and light text. The window title is 'pofremu1@gsuad.gsu.edu@snc'. The prompt is '[pofremu1@gsuad.gsu.edu@snowball ~]\$. The user enters 'vi foo.sh', then 'chmod a+x foo.sh', then './foo.sh'. The output is '14'. The prompt returns to '[pofremu1@gsuad.gsu.edu@snowball ~]\$.

```
[pofremu1@gsuad.gsu.edu@snowball ~]$ vi foo.sh
[pofremu1@gsuad.gsu.edu@snowball ~]$ chmod a+x foo.sh
[pofremu1@gsuad.gsu.edu@snowball ~]$ ./foo.sh
14
[pofremu1@gsuad.gsu.edu@snowball ~]$
```

2) We initialize the variables  $x = 0$  and  $i = 1$ . We start a while/do loop with the condition of  $i \leq 3$ . It squares  $i$  and adds the result to the  $x$  variable. We then print  $x$  out at the end.

**Part B**A terminal window with a dark background and light text. The window title is 'pofremu1@gsuad.gsu.edu@snc'. The prompt is '[pofremu1@gsuad.gsu.edu@snowball ~]\$. The user enters 'vi foo.sh', then './foo.sh 5'. The output is '55'. The prompt returns to '[pofremu1@gsuad.gsu.edu@snowball ~]\$.

```
[pofremu1@gsuad.gsu.edu@snowball ~]$ vi foo.sh
[pofremu1@gsuad.gsu.edu@snowball ~]$ ./foo.sh 5
55
[pofremu1@gsuad.gsu.edu@snowball ~]$
```

## Part C

```
pofremu1@gsuad.gsu.edu@snc x + v
[pofremu1@gsuad.gsu.edu@snowball ~]$ vi foo.sh
[pofremu1@gsuad.gsu.edu@snowball ~]$ ./foo.sh
please input a number
5
55
[pofremu1@gsuad.gsu.edu@snowball ~]$
```

## Part D

```
import java.util.Scanner;
class foo {

    public static void main(String args[]) {
        int x = 0;
        int i = 1;

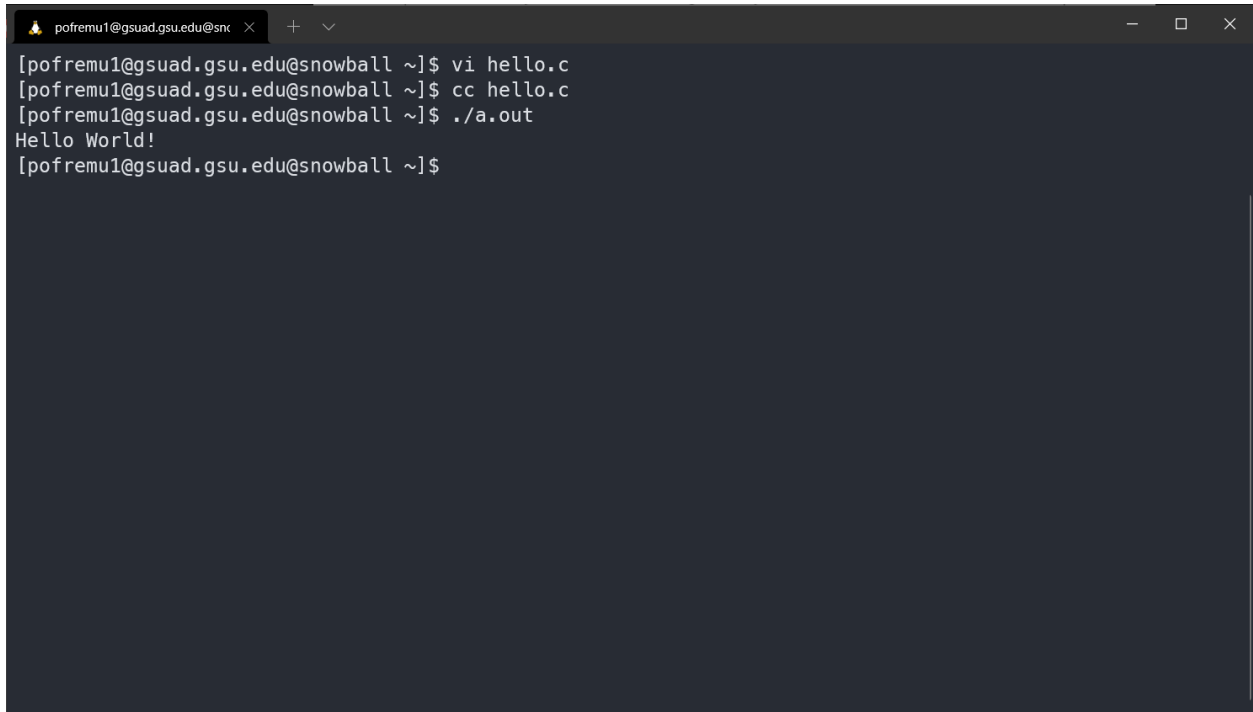
        Scanner sc = new Scanner(System.in);
        System.out.println("please input a number");
        int num = sc.nextInt();

        while(i <= num) {
            int s = i*i;
            x += s;
            i++;
        }

        System.out.println(x);
    }
}
```

## Part E

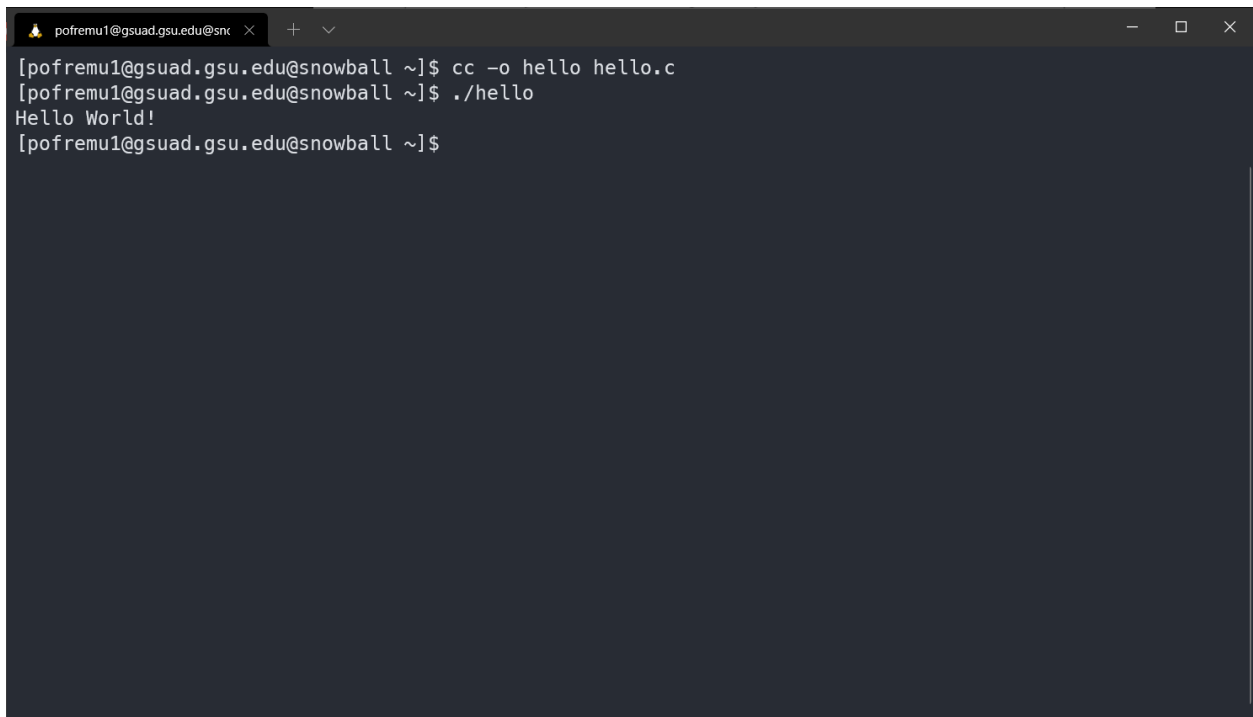
1)



```
pofremu1@gsuad.gsu.edu@snc x + v
[pofremu1@gsuad.gsu.edu@snowball ~]$ vi hello.c
[pofremu1@gsuad.gsu.edu@snowball ~]$ cc hello.c
[pofremu1@gsuad.gsu.edu@snowball ~]$ ./a.out
Hello World!
[pofremu1@gsuad.gsu.edu@snowball ~]$
```

2) **hello** is the new file

3)



```
pofremu1@gsuad.gsu.edu@snc x + v
[pofremu1@gsuad.gsu.edu@snowball ~]$ cc -o hello hello.c
[pofremu1@gsuad.gsu.edu@snowball ~]$ ./hello
Hello World!
[pofremu1@gsuad.gsu.edu@snowball ~]$
```

4)

```
pofremu1@gsuad.gsu.edu@snc x + v
[pofremu1@gsuad.gsu.edu@snowball ~]$ vi myName.c
[pofremu1@gsuad.gsu.edu@snowball ~]$ cc -o myName myName.c
[pofremu1@gsuad.gsu.edu@snowball ~]$ ./myName
My name is Paul Ofremu Jr.
[pofremu1@gsuad.gsu.edu@snowball ~]$
```

```
#include <stdio.h>

int main(void) {
    printf("My name is Paul Ofremu Jr.\n");
    return 0;
}
[pofremu1@gsuad.gsu.edu@snowball ~]$
```