

Part A

1. Screenshot of code

```
[[ttahir1@gsuad.gsu.edu@snowball ~]$ ./foo.sh  
x=14
```

2. What is foo.sh doing?

- a. The code is running a while loop, which runs while $i \leq 3$, with i having an initial value of 1, every time the code runs, a variable s is equal to $i * i$ and then s is added to x which was initialized with the value of 0 in the beginning. At the end $i = i + 1$. This code runs 3 times with s having values of 1, 4, 9. Which are added to x and then at the end of the code x has the value of 14.

Part B

```
[[ttahir1@gsuad.gsu.edu@snowball ~]$ vi foo.sh  
[[ttahir1@gsuad.gsu.edu@snowball ~]$ ./foo.sh 5  
x=55
```

Part C

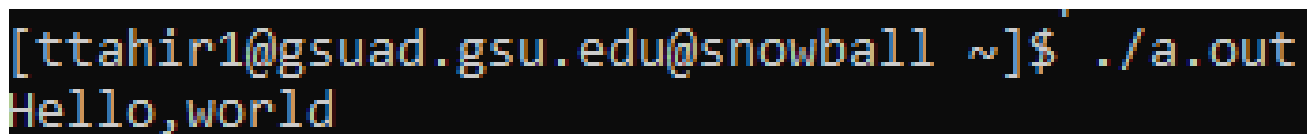
```
[[ttahir1@gsuad.gsu.edu@snowball ~]$ vi foo.sh  
[[ttahir1@gsuad.gsu.edu@snowball ~]$ ./foo.sh  
please input a number  
5  
x=55
```

Part D

```
class foo{  
  
    public static void main(String[] args)  
  
    {  
  
        int x=0;  
  
        int i=1;  
  
        while(i<=3){  
  
            int s=i*i;  
  
            x=s+x;  
  
            i++;  
  
        }  
  
        System.out.println("x="+x);  
  
    }  
  
}
```

Part E

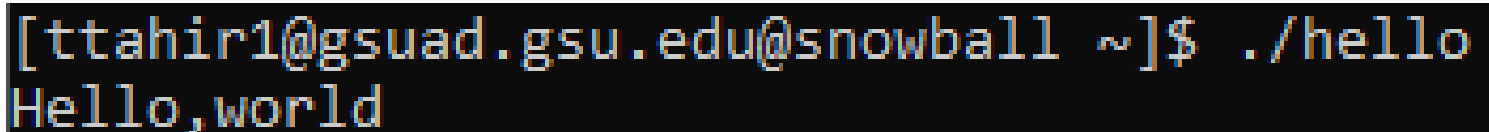
1. Screenshot of step 4



```
[ttahir1@gsuad.gsu.edu@snowball ~]$ ./a.out  
Hello,world
```

2. Try following command to compile and link hello.c again. And tell what new file is generated after this command?
 - a. The file hello is generated after the command

3. Screenshot of ./hello



```
[ttahir1@gsuad.gsu.edu@snowball ~]$ ./hello  
Hello,world
```

4. Create my own program

```
[ttahir1@gsuad.gsu.edu@snowball ~]$ cc -o myName myName.c  
[ttahir1@gsuad.gsu.edu@snowball ~]$ ./myName  
My name is Talaal Tahir
```

Code

```
#include <stdio.h>  
  
int main(void)  
{  
    printf("My name is Talaal Tahir\n");  
    return 0;  
}
```