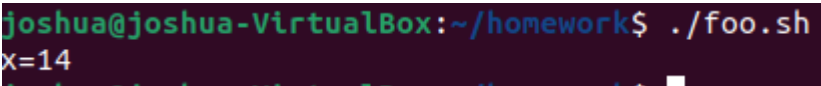


Part A:

1) 
joshua@joshua-VirtualBox:~/homework\$./foo.sh
x=14

2)

First loop

$x = s + x(1*1) + (0)$

X now equals 1

Second loop

$x = s + x(2*2) + (1)$

X now equal 5

Third loop

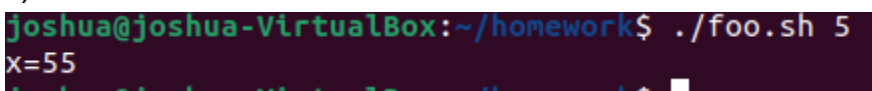
$x = s + x(3*3) + (5)$

X now equals 14

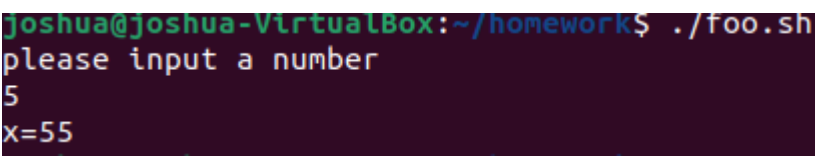
Therefore foo.sh Takes $\text{loop}^2 + \text{current } x$ to get new x for three loops

Part B:

1)


joshua@joshua-VirtualBox:~/homework\$./foo.sh 5
x=55

Part C:


joshua@joshua-VirtualBox:~/homework\$./foo.sh
please input a number
5
1) x=55

Part D:

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

Part D:

1)

```
joshua@joshua-VirtualBox:~/homework$ ./a.out  
Hello,world
```

2) an executable hello file is created

```
joshua@joshua-VirtualBox:~/homework$ ./hello  
Hello,world
```

3)

4)

```
joshua@joshua-VirtualBox:~/homework$ ./a.out  
My name is Joshua Griffith
```

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

```
int main(void)
```

```
{
```

```
printf("My name is Joshua Griff\n");
```

```
return 0;
```

```
}
```