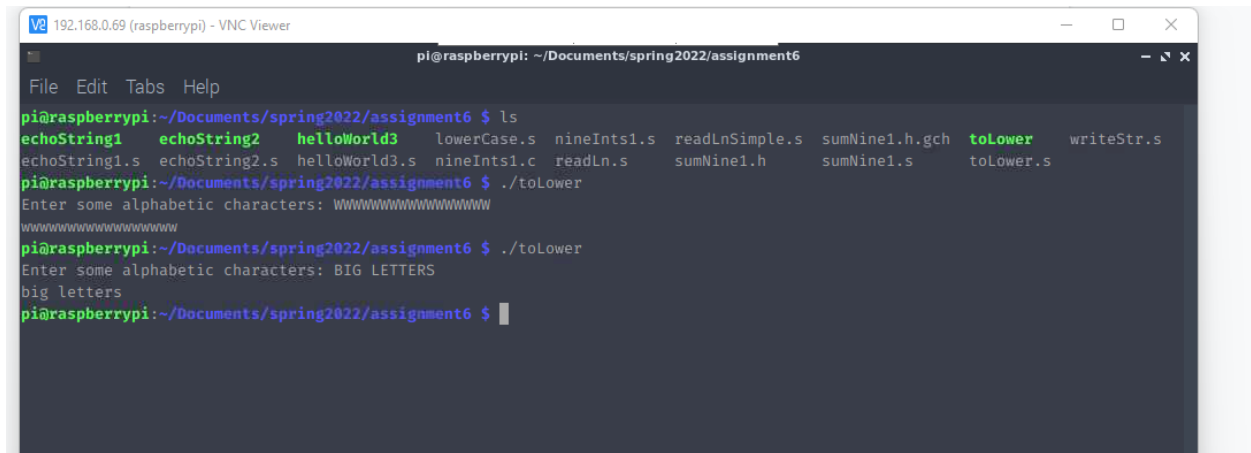


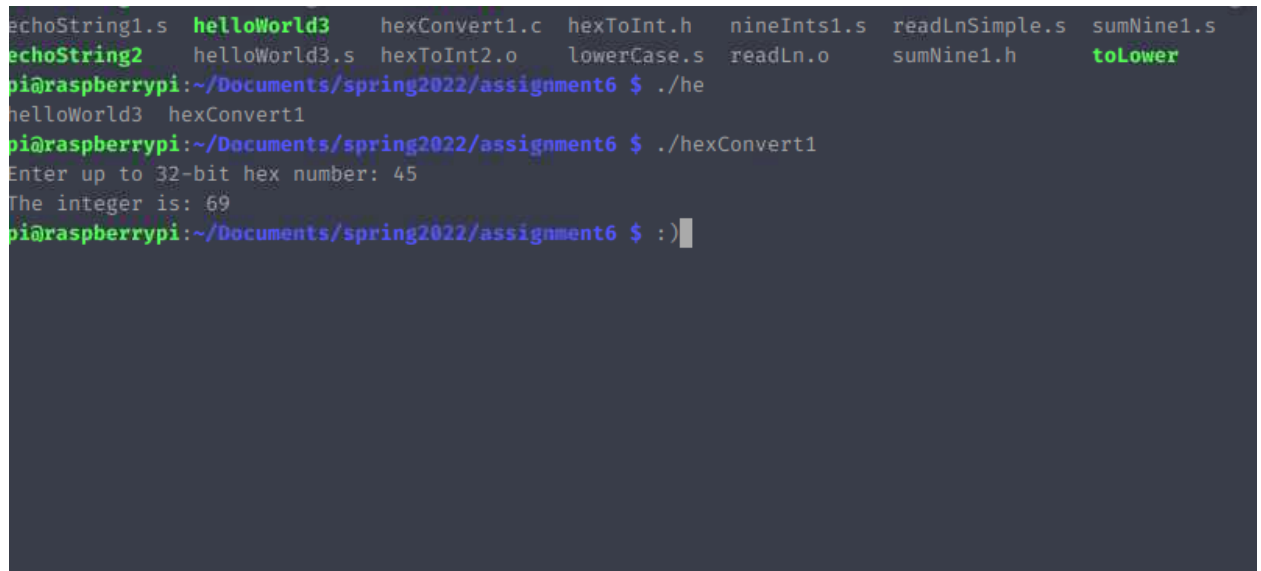
14.2, 14.4, 14.7

## 14.2 Programming Exercise:



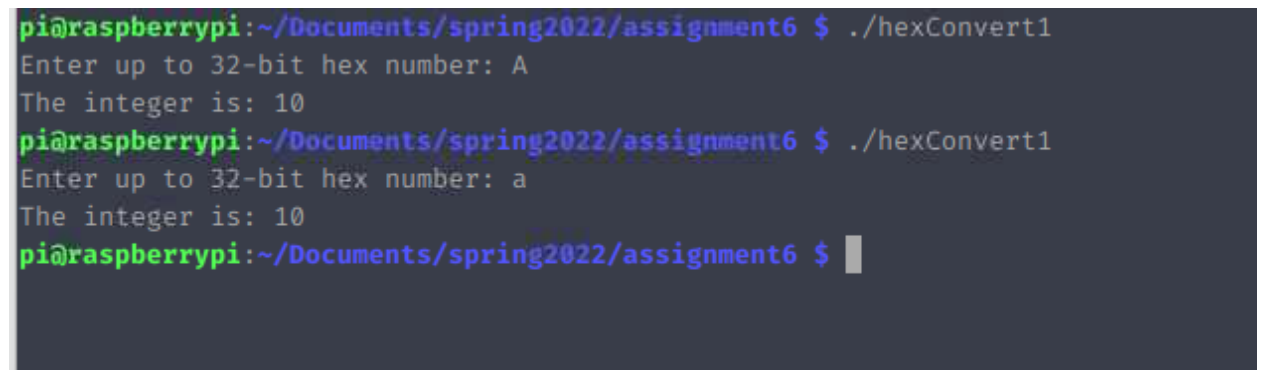
```
192.168.0.69 (raspberrypi) - VNC Viewer
pi@raspberrypi: ~/Documents/spring2022/assignment6
File Edit Tabs Help
pi@raspberrypi:~/Documents/spring2022/assignment6 $ ls
echoString1  echoString2  helloWorld3  lowerCase.s  nineInts1.s  readLnSimple.s  sumNine1.h.gch  toLower  writeStr.s
echoString1.s  echoString2.s  helloWorld3.s  nineInts1.c  readLn.s  sumNine1.h  sumNine1.s  toLower.s
pi@raspberrypi:~/Documents/spring2022/assignment6 $ ./toLower
Enter some alphabetic characters: WWWWWWWWWWWWWWW
wwwwwwwwwwww
pi@raspberrypi:~/Documents/spring2022/assignment6 $ ./toLower
Enter some alphabetic characters: BIG LETTERS
big letters
pi@raspberrypi:~/Documents/spring2022/assignment6 $
```

## 14.4 Programming Exercises:



```
echoString1.s  helloWorld3  hexConvert1.c  hexToInt.h  nineInts1.s  readLnSimple.s  sumNine1.s
echoString2  helloWorld3.s  hexToInt2.o  lowerCase.s  readLn.o  sumNine1.h  toLower
pi@raspberrypi:~/Documents/spring2022/assignment6 $ ./he
helloWorld3  hexConvert1
pi@raspberrypi:~/Documents/spring2022/assignment6 $ ./hexConvert1
Enter up to 32-bit hex number: 45
The integer is: 69
pi@raspberrypi:~/Documents/spring2022/assignment6 $ :)
```

- 1.
2. Yes.



```
pi@raspberrypi:~/Documents/spring2022/assignment6 $ ./hexConvert1
Enter up to 32-bit hex number: A
The integer is: 10
pi@raspberrypi:~/Documents/spring2022/assignment6 $ ./hexConvert1
Enter up to 32-bit hex number: a
The integer is: 10
pi@raspberrypi:~/Documents/spring2022/assignment6 $
```

```
192.168.0.69 (raspberrypi) - VNC Viewer
pi@raspberrypi: ~/Documents/spring2022/assignment6
File Edit Tabs Help
pi@raspberrypi:~/Documents/spring2022/assignment6 $ ./hexConvert2
Enter up to 32-bit hex number: A866
The integer is: 43110
pi@raspberrypi:~/Documents/spring2022/assignment6 $
```

3.

```
pi@raspberrypi:~/Documents/spring2022/assignment6 $ ./addHex
Enter up to 32-bit hex number: A
Enter up to 32-bit hex number: A
Their sum is: 0x00000014
pi@raspberrypi:~/Documents/spring2022/assignment6 $ ./addHex
Enter up to 32-bit hex number: A
Enter up to 32-bit hex number: B
Their sum is: 0x00000015
pi@raspberrypi:~/Documents/spring2022/assignment6 $
```

4.

## 14.7 Programming Exercises:

```
pi@raspberrypi:~/Documents/spring2022/assignment6 $ ./incrementDec
Enter an unsigned number up to 4294967294: 4294967294
4294967295
pi@raspberrypi:~/Documents/spring2022/assignment6 $
```

1.

```
pi@raspberrypi:~/Documents/spring2022/assignment6 $ vim uIntToDecMls.s
pi@raspberrypi:~/Documents/spring2022/assignment6 $ gcc -o incrementDec incrementDec.s writeStr.s readLn.s uDecToInt.s uIntToDecMls.s
pi@raspberrypi:~/Documents/spring2022/assignment6 $ ./incrementDec
Enter an unsigned number up to 4294967294: 12345
12346
pi@raspberrypi:~/Documents/spring2022/assignment6 $
```

2.

```
pi@raspberrypi:~/Documents/spring2022/assignment6 $ ./incrementSigned
Enter a signed integer between -2147483648 and +2147483646: -1
+0
pi@raspberrypi:~/Documents/spring2022/assignment6 $ ./incrementSigned 99
Enter a signed integer between -2147483648 and +2147483646: 99
+100
pi@raspberrypi:~/Documents/spring2022/assignment6 $ █
```

3.