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Lab Assignment 6 - Part 2 - Post Lab

CSC3320 System Level Programming (Lab time: Thursday 4-5pm)

Part A:

Ouestions:

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

```
[aiftikhar2@gsuad.gsu.edu@snowball ~]$ ./foo.sh x= 14 [aiftikhar2@gsuad.gsu.edu@snowball ~]$
```

- 2) Describe what does the shell script **foo.sh** do?
 - First, it declares two variables. x=0, i=1
 - Then, while loop runs 3 times.

```
    i=1: s=1, x=1, i++
    i=2: s=4, x=5, i++
    i=3: s=9, x=14, i++
```

- → i=4: while loop breaks (condition not met)
- Finally, print value of x (i.e., x=14).

Part B:

Question:

Attach a screenshot of the output.

```
[aiftikhar2@gsuad.gsu.edu@snowball ~]$ ./foo.sh 5
x= 55
[aiftikhar2@gsuad.gsu.edu@snowball ~]$
```

In this case, a parameter is passed (inside while loop's condition), whose value is 5.

Part C:

Question:

Attach a screenshot of the output.

```
[aiftikhar2@gsuad.gsu.edu@snowball ~]$ ./foo.sh
please input a number
5
x= 55
[aiftikhar2@gsuad.gsu.edu@snowball ~]$
```

In this case, a user input is taken.

My Final Shell Script:

Part D:

Question:

```
Then put the source code of foo.java in your answer sheet.
//foo.java
class foo {
   public static void main(String[] args) {
      int x=0;
      int i=1;
      int s;
      while (i<=3){
            s=i*i;
            x=s+x;
            i=i+1;
      }
      System.out.println("x = "+x);
      }
}</pre>
```

```
[aiftikhar2@gsuad.gsu.edu@snowball ~]$ cat -n foo.java
     1 //foo.java
            public static void main(String[] args) {
                int i=1;
                while (i \le 3) {
                        s=i*i;
                        x=s+x;
    10
                        i=i+1;
    11
   12
                System.out.println("x = "+x);
   13
[aiftikhar2@gsuad.gsu.edu@snowball ~]$ javac foo.java
[aiftikhar2@gsuad.gsu.edu@snowball ~]$ java foo
[aiftikhar2@gsuad.gsu.edu@snowball ~]$ [
```

Part E:

Questions:

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

```
[aiftikhar2@gsuad.gsu.edu@snowball ~]$ vi hello.c
[aiftikhar2@gsuad.gsu.edu@snowball ~]$ cc hello.c
[aiftikhar2@gsuad.gsu.edu@snowball ~]$ ls
a.out foo.class hello.c hw2_rough.txt Lab4 Result
checkError.sh foo.java hello.sh hw2Rough.txt practice simple.sh
csc3320 foo.sh homeworks Lab3 public
[aiftikhar2@gsuad.gsu.edu@snowball ~]$ ./a.out
Hello,world
[aiftikhar2@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

hello file is generated.

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

\$./hello

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.

```
[aiftikhar2@gsuad.gsu.edu@snowball ~]$ cc myName.c
[aiftikhar2@gsuad.gsu.edu@snowball ~]$ ./a.out
My name is Aleeza Iftikhar
[aiftikhar2@gsuad.gsu.edu@snowball ~]$
#include <stdio.h>
char firstName[] = "Aleeza";
char lastName[] = "Iftikhar";
int main(void) {
  printf("My name is %s %s\n", firstName, lastName);
  return 0;
}
```

```
//-----//
```