Cassandra Lundberg

10/06/21

System Level Programming

Lab Assignment# 6: Post- Lab

Part A:

Text

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Shape

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1. The shell script foo.sh first creates two variables, one called x and one called i. The i variable acts as a counter for the while loop as it is incremented by one for every iteration of the loop. The x variable stores a value and is displayed after all the iterations of the while loop’s expressions are completed. The program enters the while loop and performs the expressions if the variable i is less than or equal to 3. As long as these conditions hold then a variable s is created by multiplying the value of i by itself. Then the variable x changed by adding s to the original value x contained. Then the last expression of the while loop increments the variable i by 1. The done keyword of UNIX in shell script, exits the while loop and acts as a bracket to tell the shell script when the while loop ends. Once the variable i iterates to a value of 4, the value of x is 14, so using the “echo” command, the value of x is printed.

Part B:

Text

Description automatically generated

Part C:

Text

Description automatically generated

Text

Description automatically generated

Part D:

Graphical user interface, text

Description automatically generated

A screenshot of a computer

Description automatically generated with medium confidence

Source Code:

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++;

}

System.out.println(“x = “ + x);

}

}

Part E:

A screenshot of a computer

Description automatically generated

The new file generated from the command typed was a file named “hello”.

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated with medium confidence

Text

Description automatically generated

Source Code:

#include <stdio.h>

int main (void){

printf(“My name is Cassandra Lundberg!\n”);

return 0;

}