Name: Vidit Pokharna GT Number: 903772087

0. Which prered did you take and when CS2110 CS2130
Fall Spring Summer 98 98 99 00 01 02 03 04 05 06 07 08



- 1. Are you planning on taking courses for which CS 2200 is a prerequisite:

 __Networking __Operating Systems __Hardware Arch. __No
- 2. Write a function in C called swap that will swap two ints:

It will be called like this:

int a = 42; int b = 78;

/* Call to swap goes here */
printf("%d %d\n", a, b);

The output would be: 78 42

Note: a and b are not global variables. That is your function must be able to be called with different pairs of variables. Write swap here:

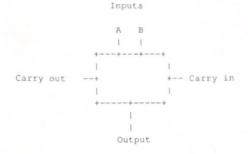
b=0;

- 3. What does "make" do? Your answer should include three major irems.
- , tracks dependencies between fles
- b. invokes compiler to create executables
- a helps run unit tests
- 4. Write 42 in binary and in hexadecimal

hexidecimal: 0x2A

Write 42.25 in binary (Not IEEE Floating Point) binary: Ob (0|0|0,0)

5. Given a full adder as a building block:



Design a 4 bit arithmetic functional unit which will implement addition (A+B) and 2's complement subtraction (A-B)

Extra credit: Provide for overflow detection. (Use the back of the paper for your answer)

6. What do you suppose this does:

load r1, #2 load r2, #3 add r3, r1, r2 store r3, result

result: word 0

This code stores 2 into R1 and 3 into R2, add them together and stores in R3, and stores the value in R3 into the label result.

7. What do you think about this:

Plan* createNewSelectionNode(
Cond* condition,
char* relation)
{
Plan* newNode;
newNode=(Plan*)malloc(sizeof(Plan));
newNode>>op=SELECTION;
newNode>>condParams[0]=condition;
newNode>>tableP1=NULL;
newNode>>tableP2=NULL;

it describes a method

with 2 parameters, created

and returning a Plant object

while updating the object's

Culich is a mode) trails

