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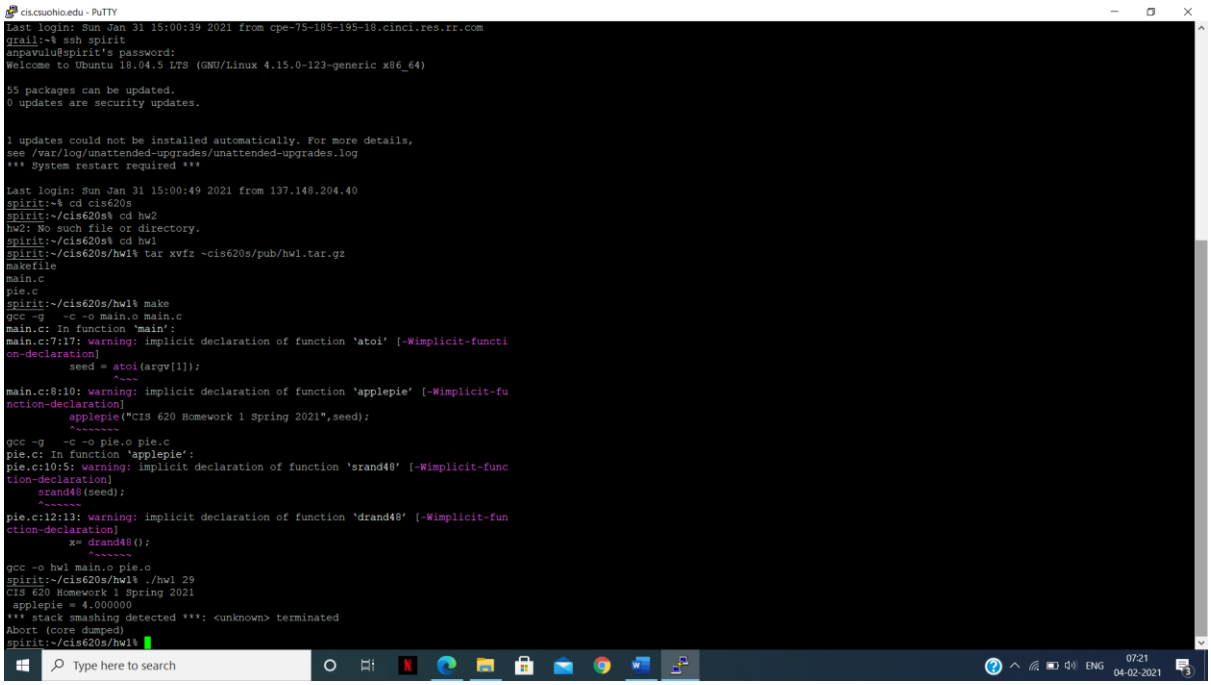
1)By, using the command tar xvfz ~cis620s/pub/hw1.tar.gz extract the files into the working directory of hw1 which is located under working directory cis620s.



2)secondly, type make command so that kernel build and shows some warning message assigning the seed value in argv[1],and for x value by using drand(48); in pie.c file as mentioned in the screen shoot above.

Thirdly, to execute the file we need type the command

./hw1 29 (passing seed value in argv[1])

CIS 620 Homework 1 Spring 2021

applepie = 4.000000

ERROR: *** stack smashing detected ***: <unknown> terminated

Abort (core dumped)

Here applepie =4.000000 I know core dumped it is a bug due to insufficient memory

This mean that count/n*4=pie count is at 80000/80000*4=pie

Pie=4.000 it is also one bug

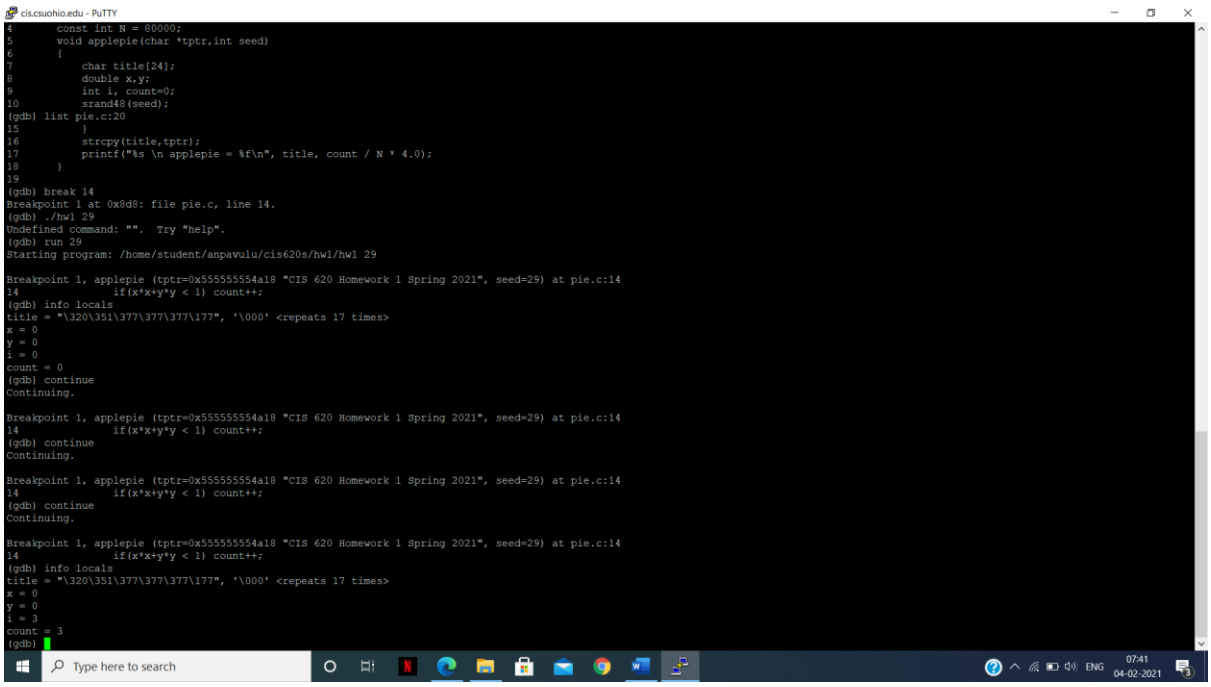
3)invoke the gdb by using the following command gdb hw1

Enter into the hw1 file and the list filename pie.c:1it list all the program lines.

4)Then search for the line which we want to set the break command and the run by passing the seed value then check info locals counts before continuing and then after type continue command three times and type info locals check the count.

5) The count=0 because x and y values are not assigning any value they are at origin. So here distance calculation not taking place. When we forcefully type continue three times it iterates the count value increases. Not reasonable because I think they are not assigning any random values from drand to calculate distance form origin whether to increment count or not. We do not know where the count value gives the pie value.

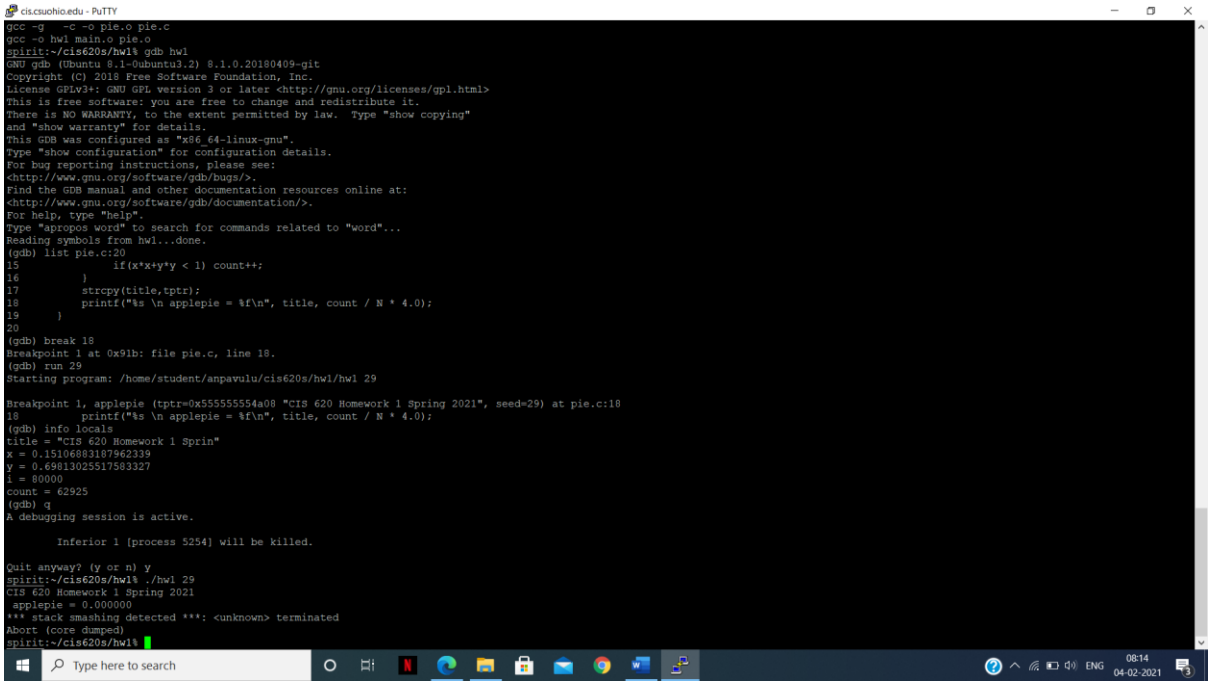
6)



7)When i check in the google x and y are under drand method for assigning values but these have a header file stdlib.h that why I included it and eliminates the warnings and get a reasonable count area(x^2+y^2)is less than 1 count is incremented.

Before that I want mention one task before entering clearing the first bug when I included the header file and after forgetting to build the kernel by typing make command. When I enter gdb and done all those break point it doesn't show me reasonable count for that I search whole day where I am doing mistake why not

getting the count perfectly later I found silly mistake when ever change is done we need to update the kernel by make to build it then only it reflects saved changes.



Count=62925 N=8ok

Count/N*4=pie

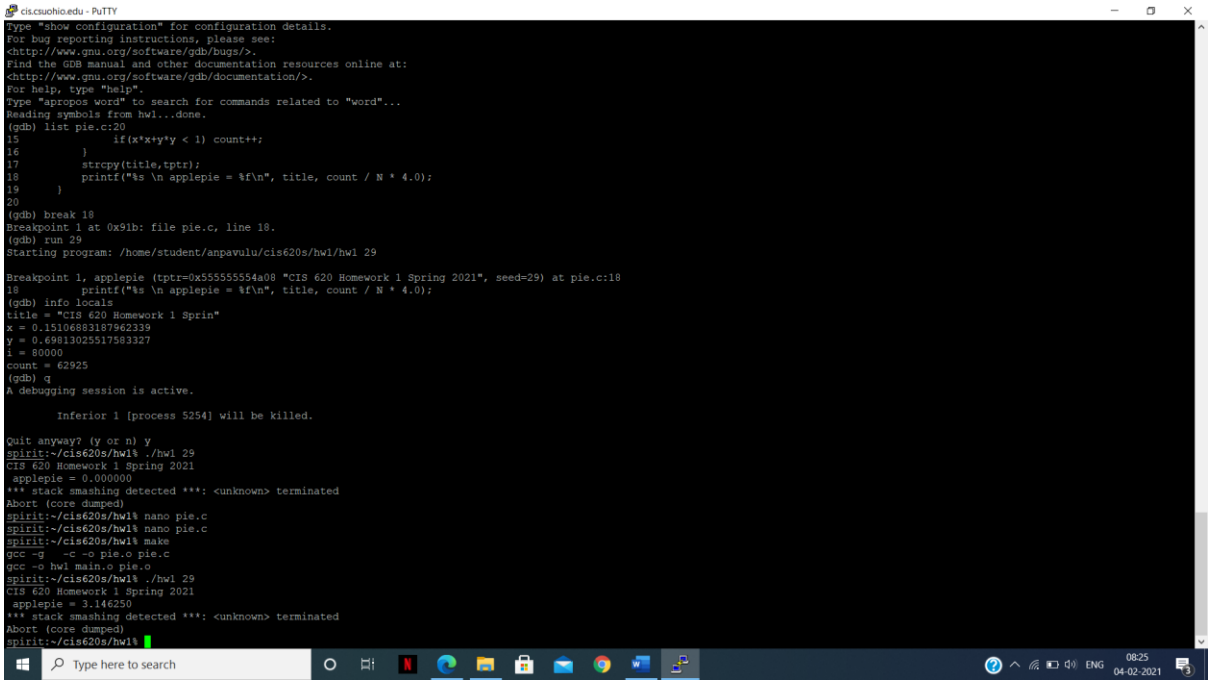
62925*/4=pie

Pie=3.14625

8) second bug printing the pie value I observed one point clearly as we are discussing the class, I came to know in printf statement there is some error.

Pie means float type variable then i change the count value has float type it worked well because int values does not print after decimal points. That to in printf it shows %f.

Fixing the second bug.



9) *** stack smashing detected ***: <unknown> terminated

Abort (core dumped) this error is occurred due to memory insufficient like segmentation fault or core dumped. While I am studying 340 course professor told if you declare small amount size but passing so many values it pass core dumped or segmentation fault later increased the char title[24] to title[29] it clears the bug

10) after recompile and run the program the output of the terminal taken screenshot.