Assignment 5

**Part 1 –**

main(){

int a = 5, b = 4, c = 11, result;

double d1 = 3.4, d2 = 1.7, doubleResult;

result = a + c /b;

result = (a+c) /b;

result = (b\*a) + c / a;

result = (int) d1 + (int) d2;

doubleResult = c/b + 6;

doubleResult = (double) c/b + a;

doubleResult = d1+d2\*a;

doubleResult=(a+c)%a\*d2;

doubleResult = a\* -d2;

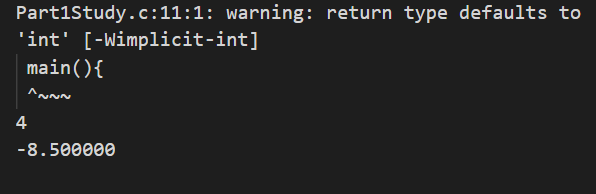
printf("%d \n", result);

printf("%lf \n", doubleResult);

}

Part 1 Screenshot(s) –

If we include all results & double results.



Result 1 & doubleResult 1



Result 2 & doubleResult 2



Result 3 & DoubleResult 3



Result 4 & doubleResult 4



doubleresult 5



**Part 2** – Done

**Part 3** –

#include <stdio.h>

#include <stdlib.h>

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**/\*Assignment 5 - Part 1 Create Create a loop that will output all odd multiples of 9 that are greater than zero and less than 100.**

9, 27, 45, 63, 81, 99\*/

oddLoop (){

//set base vars

int baseNumber= 0;

int maxCount = 99;

printf("\nAll odd numbers divisble by 9 are :");

//create sentinel loop for output

while(baseNumber<maxCount){

//set up to multiply by 1 while adding 9 each time

baseNumber\*=1;

baseNumber+=9;

//create if statement that if divisible by 2 it is false

if(baseNumber%2 == 0){

//do nothing

}

//all else will be true and print only odd multiples

else{

printf(" %d, ", baseNumber);

}

}

}

**/\*Create a loop that will output all the numbers less than 200 that are evenly**

**divisible (meaning remainder is zero) by both 5 and 8.\*/**

evenLoop(){

//set vars

int maxCount = 200;

int startingNum = 0;

printf("\nThe output of all numbers less than 200 that are divisble by 5 & 8 are : ");

//set sentinel condtion, everything under 200

while(startingNum<maxCount){

//add to starting num until condtion is met

startingNum++;

//set if for anything divisble by 5 AND 8

if(startingNum%5 == 0 && startingNum%8 == 0){

//if divisble by both, print the multiple out

printf("%d,", startingNum);

}

}

}

**/\*Create a loop that will calculate the sum of the multiples of 8**

**that are between 100 and 500. Output the sum only.**

**Please remember not to display the multiples.\*/**

sumOfEight(){

//set starting vars

int sum = 0;

int startNum = 99;

int maxCount = 500;

int minCount = 99;

//set up conditions for sentinel, between 100 and 500

while(startNum < maxCount && startNum >= minCount){

startNum++;

//printf("TEST ( %d )", startNum);

//if anything between 100 and 500 is divisble by 8, add to sum

if(startNum%8 == 0){

sum = sum+startNum;

}

}

//return sum

printf("\nThe sum of all multiples of 8 between 100 & 500 is:");

return sum;

}

**/\*Create a loop that will output the sum of all**

**odd numbers between 10 and 100.**

**Do not show the odd numbers in the output.**

**Just display the sum.\*/**

sumOfOdds(){

//setting base vars

int baseStart = 9;

int baseMax = 100;

int startNum = 10;

int sum = 0;

//setting range for sentinel loop

while(startNum < baseMax && startNum > baseStart){

//add on to starting number until max is met

startNum++;

//if starting number is divisble by two, do nothing

if(startNum%2 == 0){

//printf("test even %d", startNum);

}

//everything else is added to the sum

else{

sum+=startNum;

}

}

//return the sum

printf("\n The sum of all odd numbers between 10 & 100 is:");

return sum;

}

/\*Final main program to run all funcs\*/

main (){

int oddNum;

int evenNum;

int sum;

printf("%d",oddLoop(oddNum));

printf("%d",evenLoop(evenNum));

printf("%d",sumOfEight(sum));

printf("%d", sumOfOdds(sum));

}

**Part 3 Screenshot :**

