**BIT 142**

Intermediate Programming

*Mini Assignment 1*

Please show all of your work for each problem:   
Please type your answers in

* Times New Roman Font
* Size 12
* No bolding, italics, and/or underlining

1. **In your own words, define a project (3 points):**a development of a software.
2. **In your own words, define a solution (3 points):** a way to solve the problem
3. **Name 7 Operators we use for expressions in Computer Science (3 points)**Arithmetic, relational, logical, increment, decrement, modulo, division
4. **Explain the difference between the modulo operator and the division operator (3 points)**division is use 4/2= 2 but modulo 5%2=1
5. **Solve the following expressions: (10 points** at 2 points each**)**a) 3 \* -1 + 7 - 5 / 2 = 2

b) 2 + 2 + "(2 + 2)" + 2 + (2 + 2) =446

c) 13 / 3 - 27 / 5 \* 0.5 + (7.5 - 6) = 0

d) 2 % 11 % 2 + 11 % 2 + 2 = 4

e) (5 / 3 == 1 && 10 < 4 + 5) != false

true

1. **When would I use an** if/else **statement? (3 points)**To have a choice that something. if (x<0) x++ else x--
2. **What is the difference between** 110 % 2 **and** 2 % 110**? (3 points)**the modulo is different.
3. **What is the rule regarding** integer **division? (3 points)**

the quotient of a positive integer and a negative integer is a negative integer

the quotient of two negative integers or two positive integers is a positive integer.

1. **In your own words, describe when to use a** for **loop? (3 points)**a thing that running again and again and again
2. **What type of loop is a** for **loop? (3 points)**is a control flow statement for specifying iteration, which allows code to be executed repeatedly.
3. **What are the 3 reoccurring steps in a** for **loop and what does each step do? (3 points)**  
   for loop, check the if the loop end, for loop…
4. **Is the code below correct? If not, rewrite it correctly (4 points)**  
   namespace ConsoleApp1 {  
    class MA2 {  
    static void main(String[] args) {  
    for double (price = 2.7; price <= 99.2; price++;) {  
    Console.line.wte('Wow, this is pricey');   
    }  
    }   
      
    }  
   }

Rewrite

Public class MA2

{

Public static void main(String[] args)

{

for ( Price != 2.7; price<= 99.2; price++;)

{

Console.WrieLine(“Wow, this is pricey”)

}

}

}

1. **Write a** for **loop to print the numbers 1 thru 100 (6 points)**
   1. **Label which part is the initialization, test, and update**

#include<instoream.h>

Void main()

{

For(int i=1; i<=100;i++)

Cout<<i<< “”;

}