COM197 Programming Lab I Midterm Exam

21/11/2019

Fill the spaces to correct the following programs.

1.(50p)(LO 1,2,3) This program displays the number of integers divisible by 7 between the given range n1 and n2, where n1 < n2 and are integers. Also find the sum of all these integer numbers that divisible by 7 and output the computed results.

```
#include <stdio.h>
       main() {
       int i, n1, n2, count = 0, sum = 0;
       printf ("Enter the value of n1 and n2\n");
       scanf ("%d %d", &n1, &n2);
       printf ("Integers divisible by 7 are\n");
       for (i = n1; i < n2; i++)
              {
                   if (i \% 7 == 0)
                     printf("%5d,", i);
                     count++;
                     sum = sum + i;
                }
       printf ("\nNumber of integers divisible by 7 between %d and %d = %d\n",n1, n2, count );
       printf ("Sum of all integers that are divisible by 7 = \%d\n", sum);
2. (50p)(LO 1,2,3) This program converts binary number to decimal by function usage.
       #include <stdio.h>
       #include <math.h>
       int convertBinaryToDecimal(int n);
       int main()
       {
         int n;
         printf("Enter a binary number: ");
         scanf("%d", &n);
         printf("%d in binary = %d in decimal", n, convertBinaryToDecimal(n));
         return 0;
       int convertBinaryToDecimal(int n)
         int decimalNumber = 0, i = 0, remainder;
         while (n!=0)
         {
            remainder = n\%10;
            n /= 10;
            decimalNumber += remainder*pow(2,i);
            ++i;
          }
         return decimalNumber;
```