20XC17 – C PROGARMMING LAB CA1 TEST

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1. PROGRAM

#include <stdio.h>

int main()

{

int Number\_1, Number\_2;

int Sum\_Of\_Number1\_Divisors = 0, Sum\_Of\_Number2\_Divisors = 0 ;

printf("ENTER THE TWO NUMBERS : ");

scanf("%d %d", &Number\_1, &Number\_2);

for(int i=1 ; i<=Number\_1 ; i++)

{

if(Number\_1 % i == 0)

Sum\_Of\_Number1\_Divisors = Sum\_Of\_Number1\_Divisors + i;

}

for(int i=1 ; i<=Number\_2 ; i++)

{

if(Number\_2 % i == 0)

Sum\_Of\_Number2\_Divisors = Sum\_Of\_Number2\_Divisors + i;

}

if((Sum\_Of\_Number1\_Divisors/Number\_1) == (Sum\_Of\_Number2\_Divisors/Number\_2))

{

printf("%d and %d are friendly numbers", Number\_1, Number\_2);

}

else

{

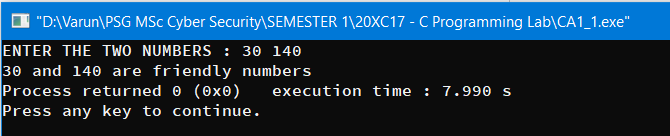
printf("%d and %d are not friendly numbers", Number\_1, Number\_2);

}

return 0;

}

OUTPUT:



1. PROGRAM

#include<stdio.h>

void main()

{

int No\_Of\_Users, Salary, i;

float Tax;

char Marital\_Status;

printf("Enter Number of Users : ");

scanf("%d", &No\_Of\_Users);

for(i=1 ; i<=No\_Of\_Users ; i++)

{

printf("Enter Martial Status S / M : ");

scanf(" %c", &Marital\_Status);

printf("Enter Gross Salary : ");

scanf("%d", &Salary);

if(Marital\_Status == 'S')

Salary = Salary - 4000;

else

Salary = Salary - 7000;

if(Salary >= 1000 && Salary <= 15000)

{

Tax = Salary\*0.15;

printf("Federal Tax : %f \n\n", Tax);

}

else if(Salary >= 15001 && Salary <= 40000)

{

Tax = (Salary\*0.25 + 2250);

printf("Federal Tax : %f \n\n", Tax);

}

else if(Salary > 40000)

{

Tax = (Salary\*0.35 + 8460);

printf("Federal Tax : %f \n\n", Tax);

}

}

}

OUTPUT :

