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COAL LAB 12

QUESTION 1:

#include <iostream>

using namespace std;

int num1, num2, num3, result;

void product(int, int, int, int);

int main()

{

cout << "Enter three No:";

cin >> num1 >> num2 >> num3;

product(num1, num2, num3, result);

return 0;

}

void product(int num1, int num2, int num3, int result)

{

\_asm

{

mov edx, 0

mov eax, num1

mov ebx, num2

mul ebx

mov ebx, num3

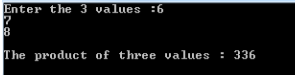
mul ebx

mov result, ebx

}

cout << " Product: " << result << endl;

}



QUESTION 2:

#include <iostream>

using namespace std;

extern "C" void GCD(int, int);

int main()

{

int a, b, c, prod;

cout << "Enter the 2 values :";

cin >> a >> b;

GCD(a, b);

\_asm

{

mov prod, eax

}

cout << endl << "GCD : " << prod << endl << endl;

return 0;

}

.686

.Model Flat ,C

.Stack 2048

.DATA

num SDWORD 1

val SDWORD ?

.code

GCD PROC , a:DWORD , b:DWORD

mov eax , a

mov ebx , b

cmp eax , ebx

JA Set

mov ecx , ebx

JMP L1

Set:

mov ecx , eax

JMP L1

L1:

mov eax , a

CDQ

idiv num

cmp edx , 0

JE CHECK

Loop GO

CHECK:

mov eax , ebx

CDQ

idiv num

cmp edx , 0

JNE Go

mov eax , num

mov val , eax

Go:

mov eax , a

mov ebx , b

inc num

Loop L1

mov eax , val

ret

GCD ENDP

END

