AIM: Inline Assembly Language Example

CODE:

int main( void )

{

char \*msg = "Hello World \r\n$"; /\* $ is the null terminator

in assembly \*/

asm {

MOV AH, 9;

MOV DX, msg;

INT 21H;

}

return(0);

} /\*--main( \*/

OUTPUT:

C:\Users\Mehta\Downloads\Screenshot from 2017-09-21 12_19_31.png

AIM: External Assembly Language code for adding two numbers

CODE:

C FILE:

extern Addnum( int x, int y );

int main( void )

{

printf( "5+100 = %d \n", Addnum( 5, 100 ) );

return(0);

} /\*--main( )---\*/

ASM FILE:

; File name: Addnum.asm

.MODEL small, C

.CODE

PUBLIC Addnum

Addnum PROC NEAR USES BX, x: WORD, y: WORD

MOV AX, x

ADD AX, y

RET

Addnum ENDP

END

OUTPUT:

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AIM: External Assembly Language code for calculating power of 2 numbers:

CODE:

C FILE:

extern Powernum( int x, int y );

int main( void )

{

printf( "2^3 = %d \n", Powernum( 2, 3 ) );

return(0);

} /\*--main( )---\*/

ASM FILE:

; File name: Addnum.asm

.MODEL small, C

.CODE

PUBLIC Powernum

Powernum PROC NEAR USES BX, x: WORD, y: WORD

MOV BX, x

MOV CX, y

MOV AX,1

L1:

JCXZ DONE

MUL BX

LOOP L1

DONE:

RET

Powernum ENDP

END

OUTPUT: