// Assignment no-4(1)

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/\*PROBLEM STATEMENT:-

4. Write an Embedded C program for sorting the numbers in ascending order.

\*/

//Source Code:-

#include <xc.h>

#include <stdio.h>

#include <stdlib.h>

#include <pic18f4550.h>

void main(void)

{

int i, j, t;

int a[]={ 0x45 , 0x03 , 0x06 ,0x13 , 0x32 ,0x02, 0x50 , 0x23 };

for(j=1;j<=7;j++)

{

for(i=0;i<7;i++)

{

if(a[i]>a[i+1])

{

t=a[i];

a[i]=a[i+1];

a[i+1]=t;

}

}

}

TRISD=0;//Initialize port d as output

for(i=0;i<=7;i++)

{

PORTD = a[i];

for(int n=0;n<1000;n++)//Delay

{

for(int k=0;k<100;k++)

{

}

}

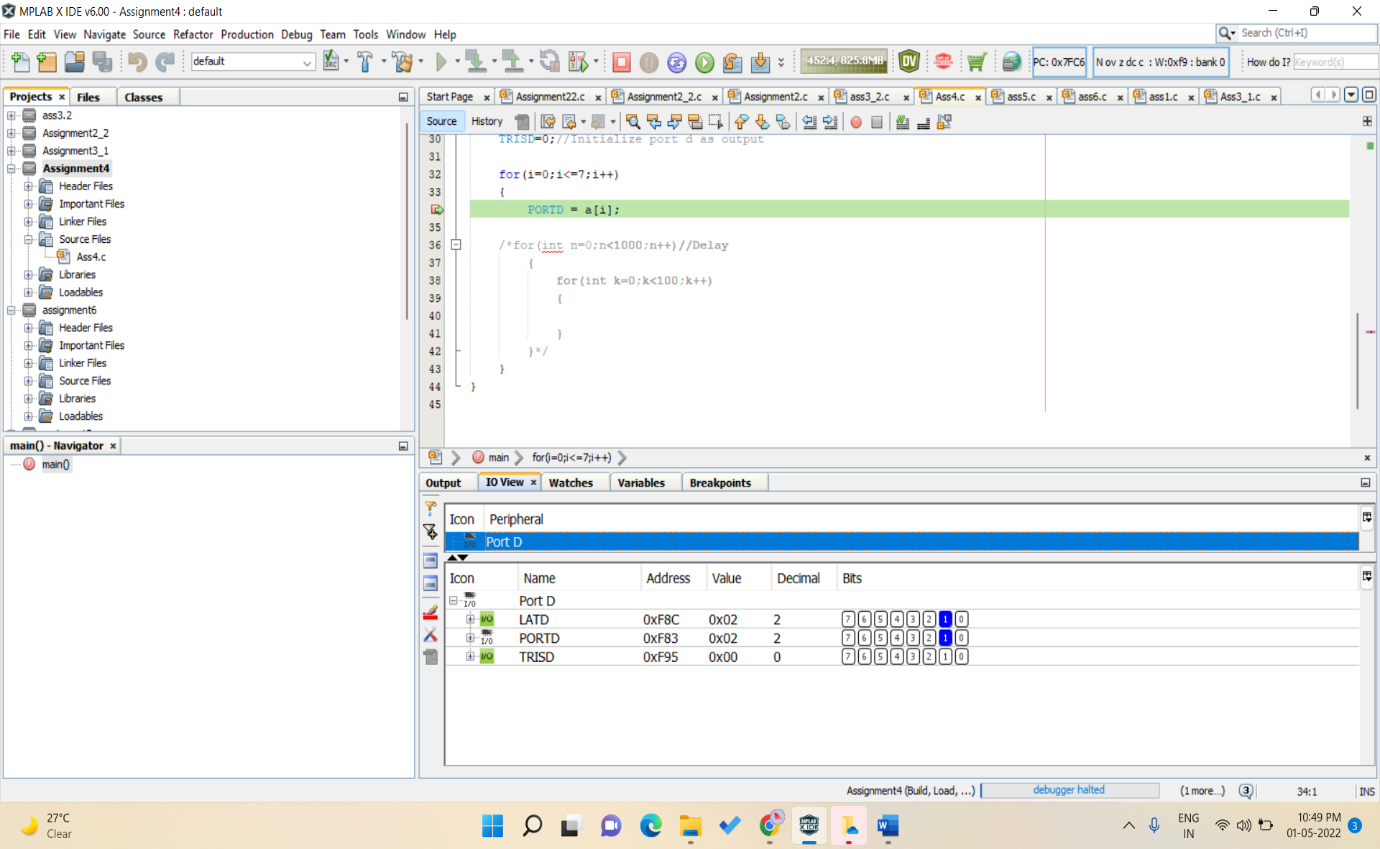
}

}

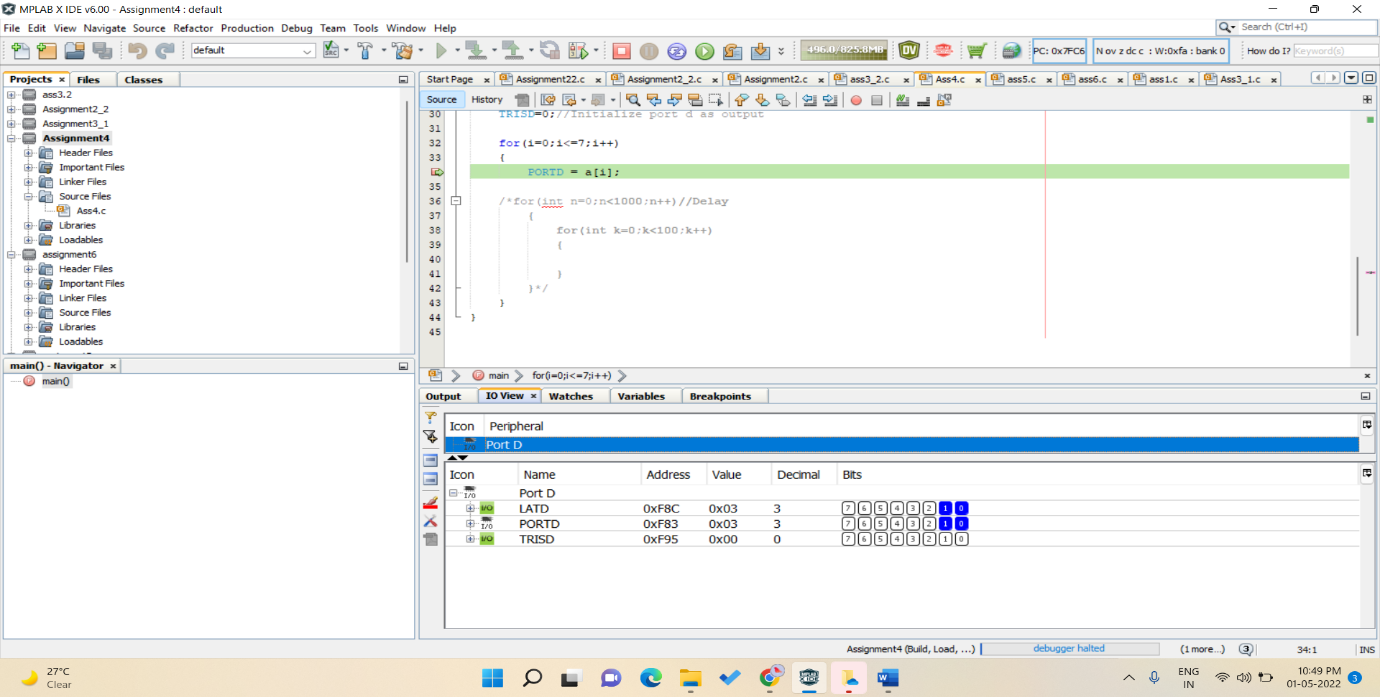
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*OUTPUT\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. I/O VIEW

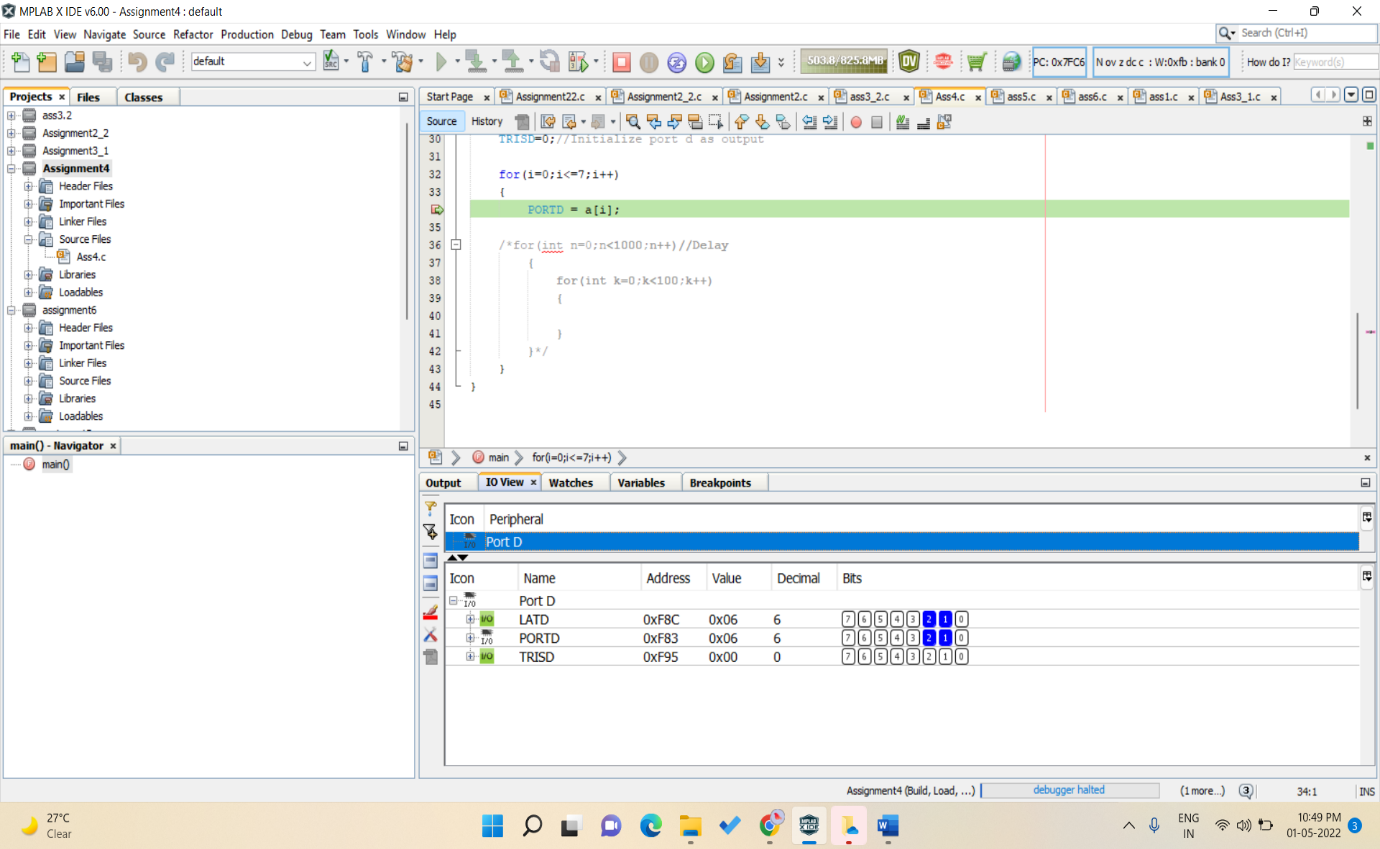
A]02



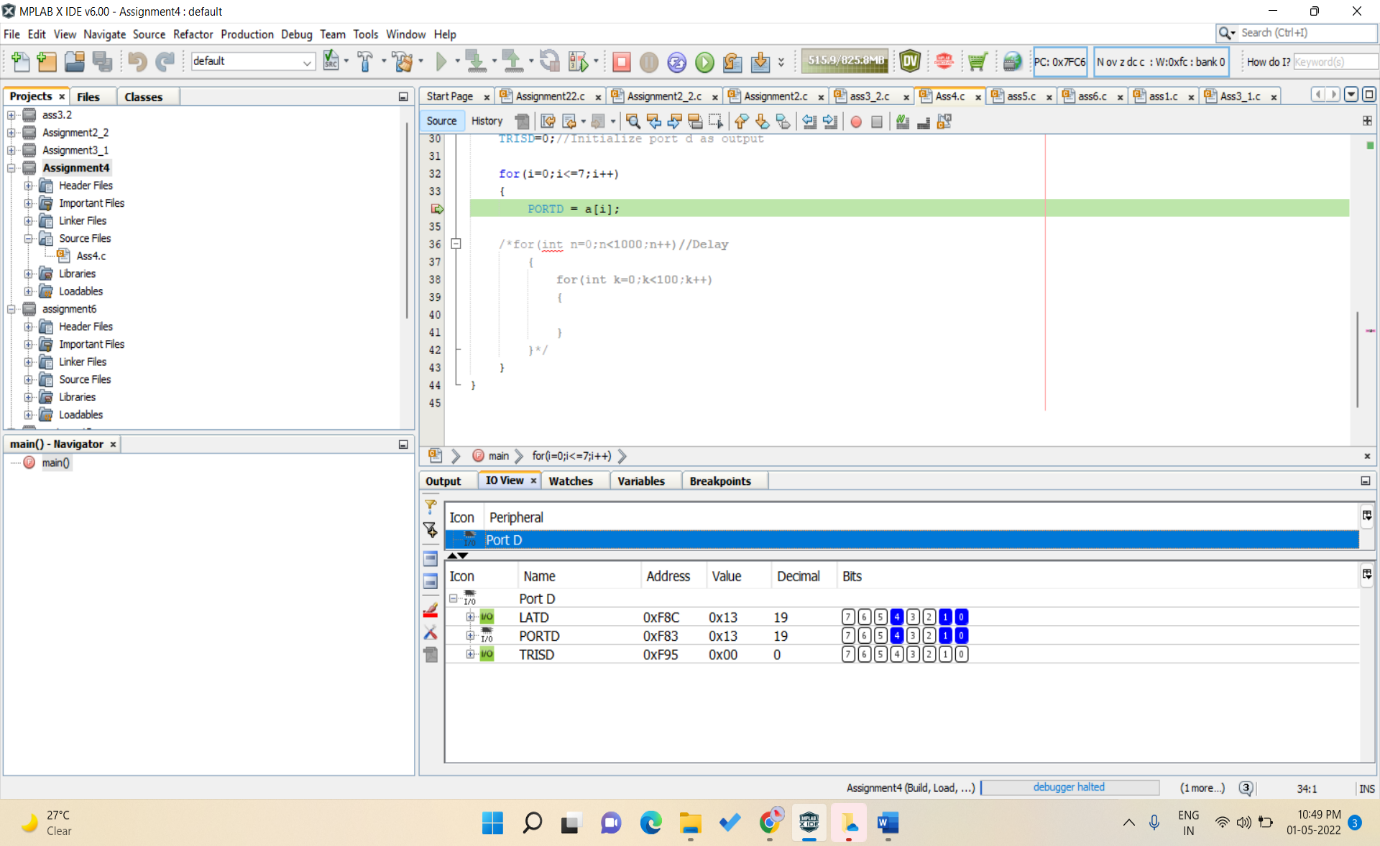
B]03



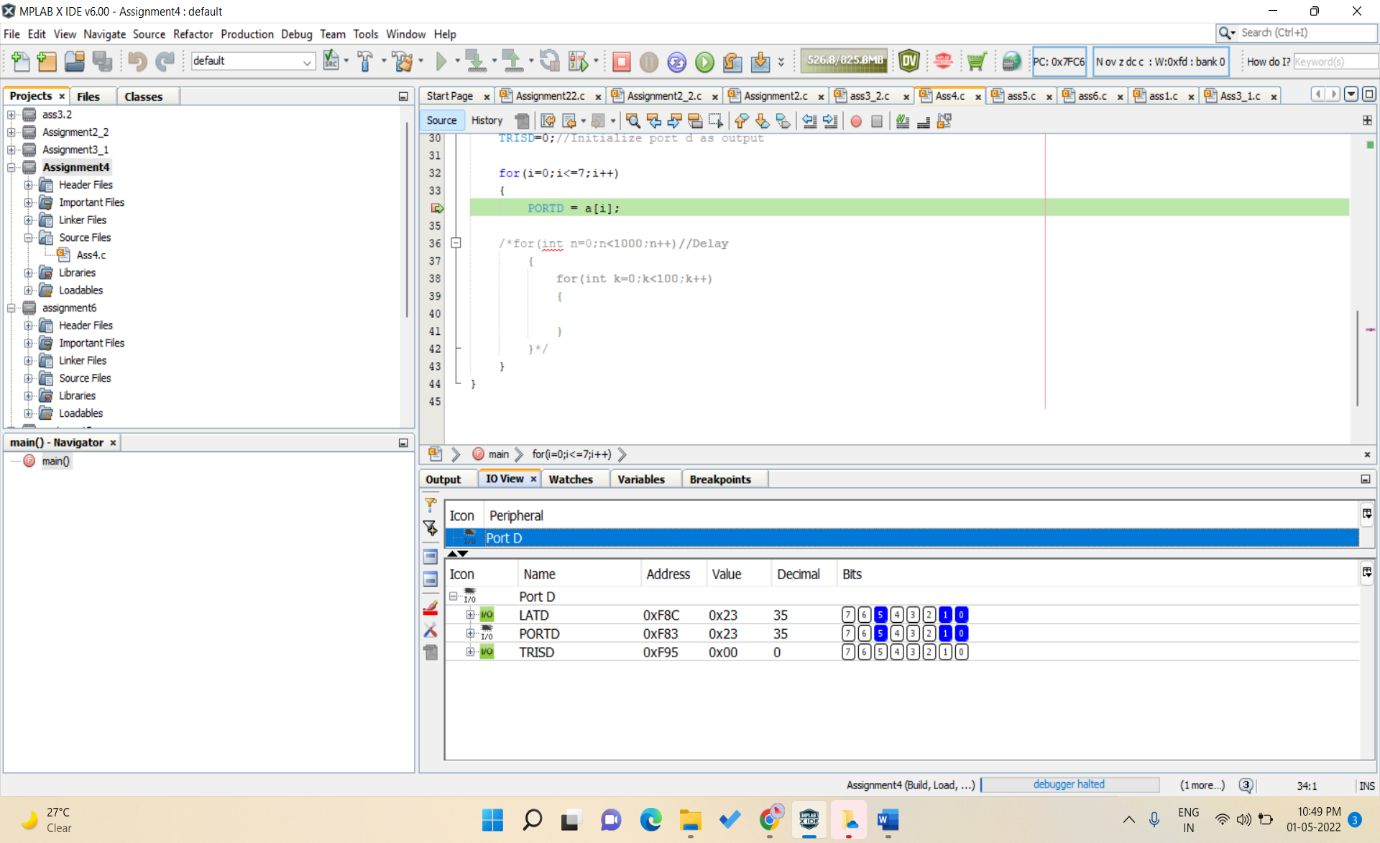
C]06



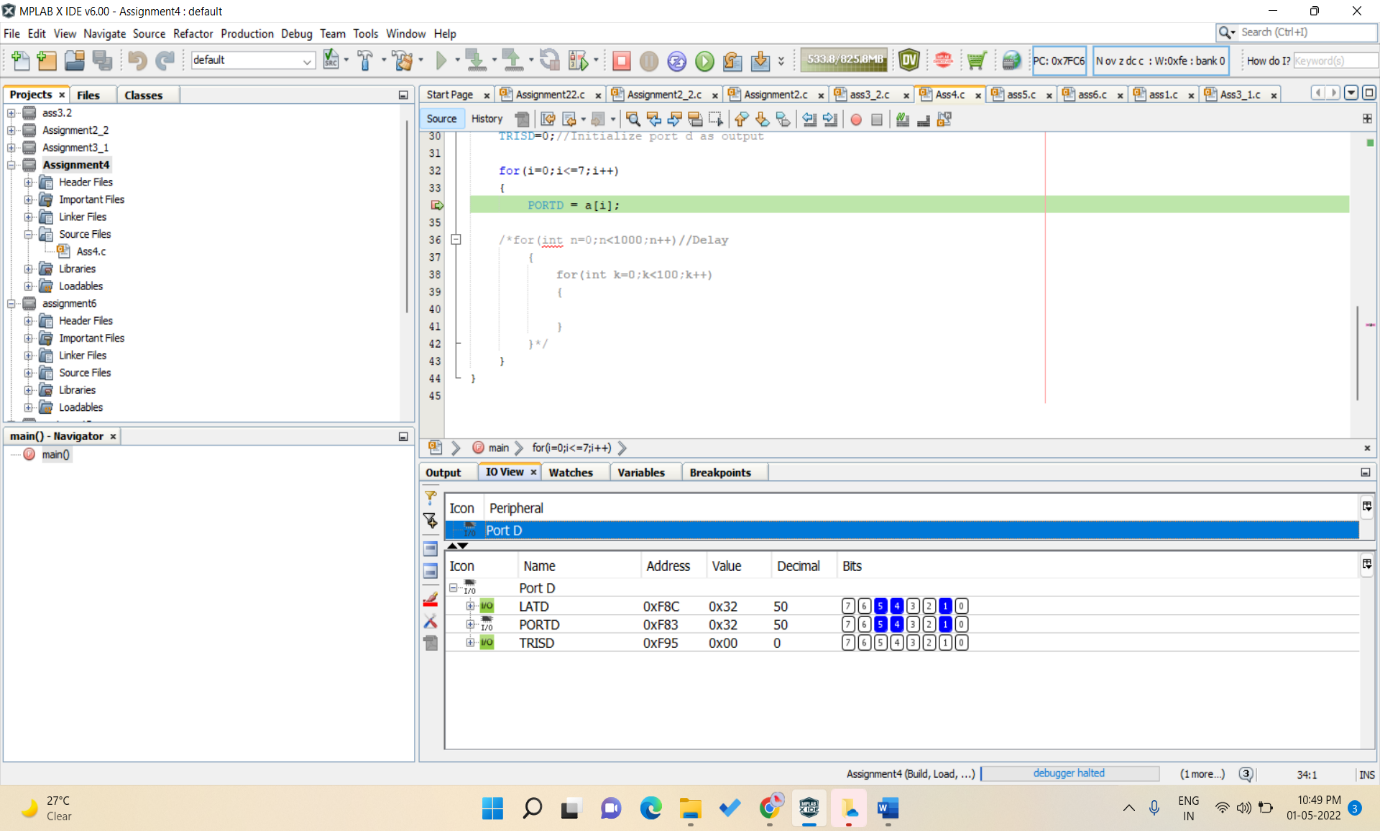
D]13



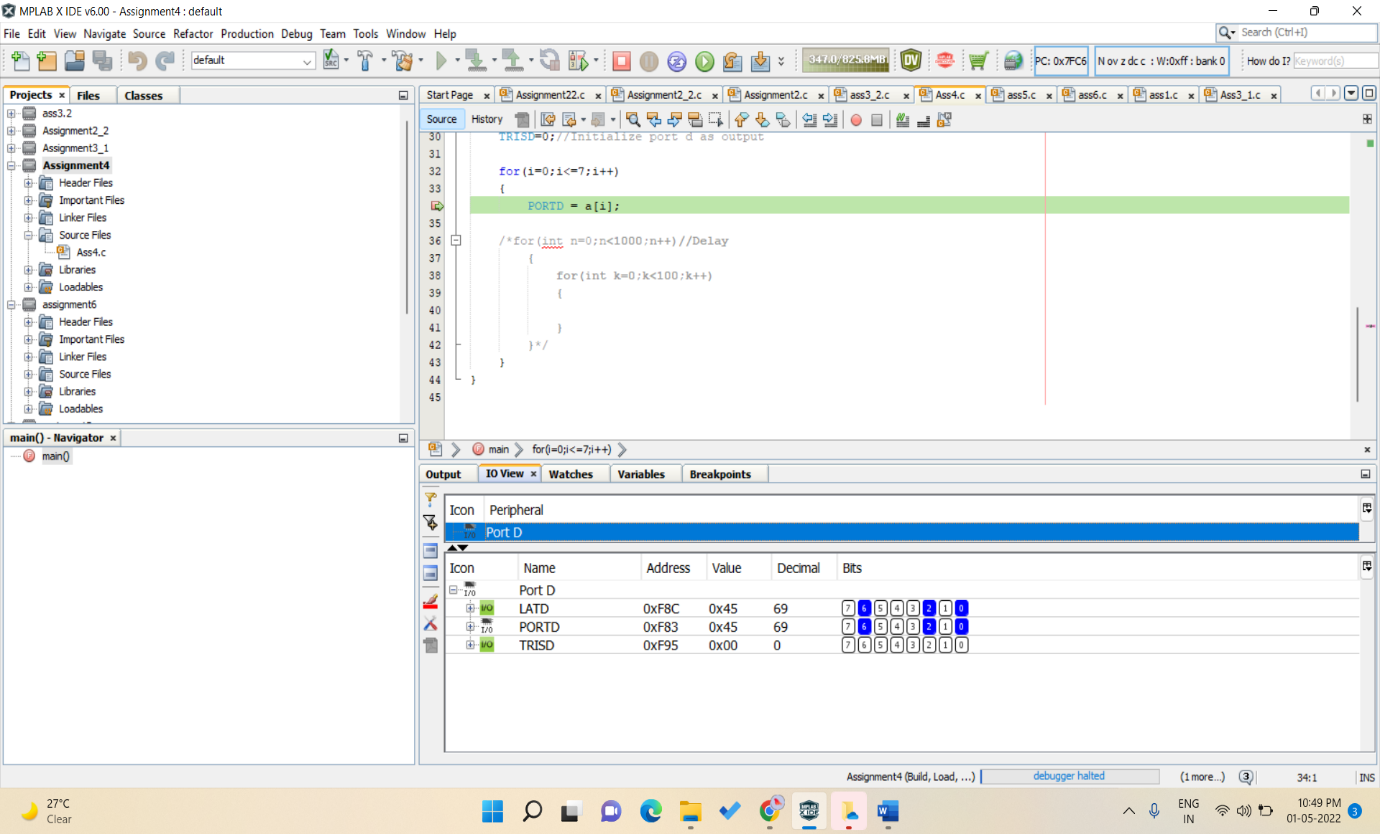
E]23



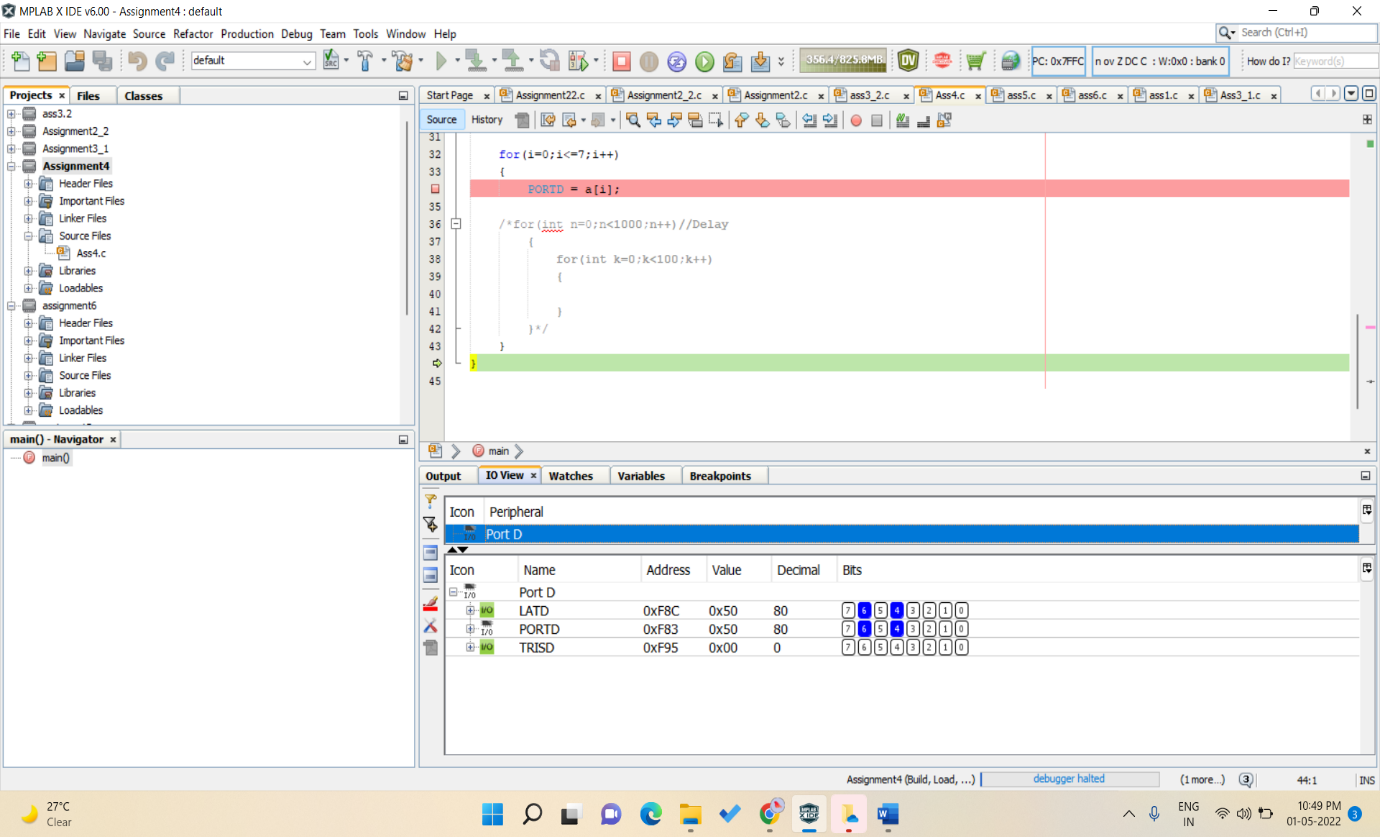
F]32



G]45

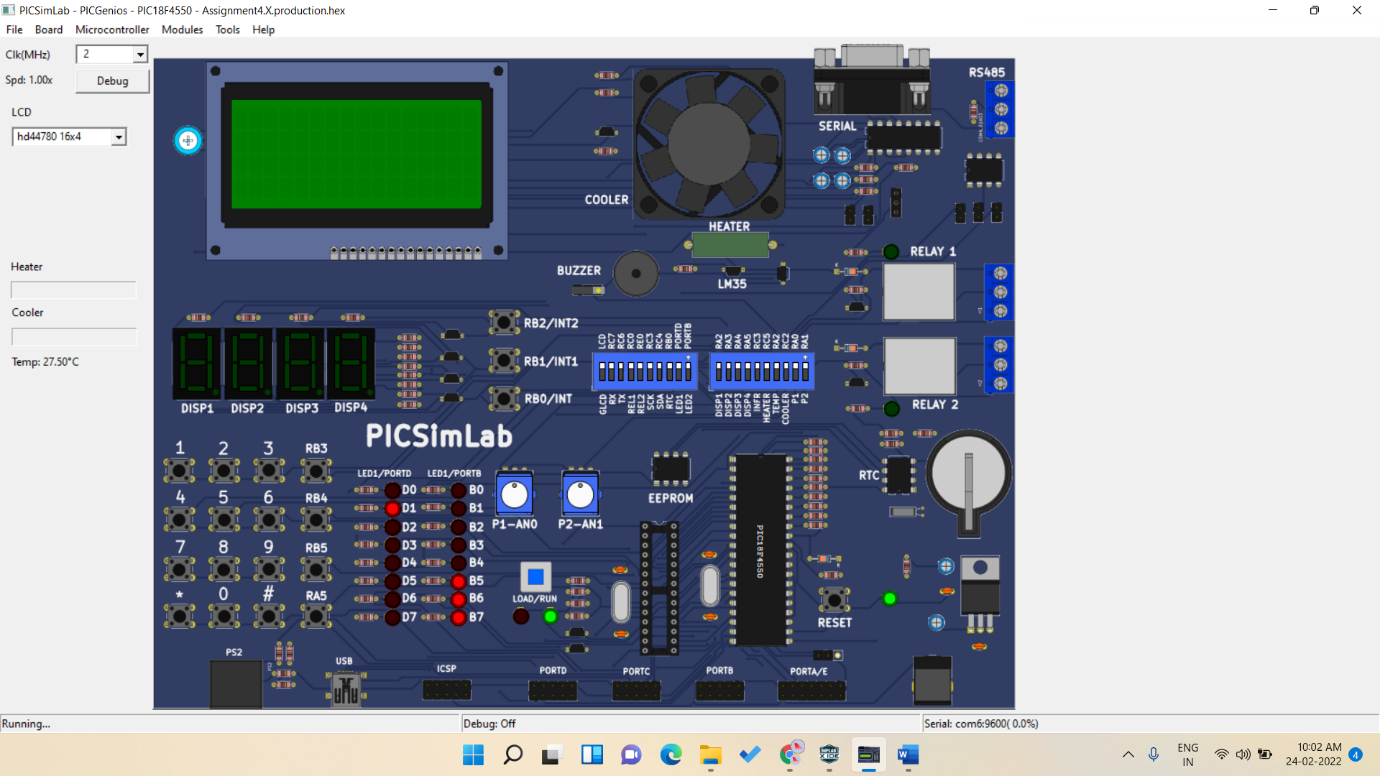


H]50

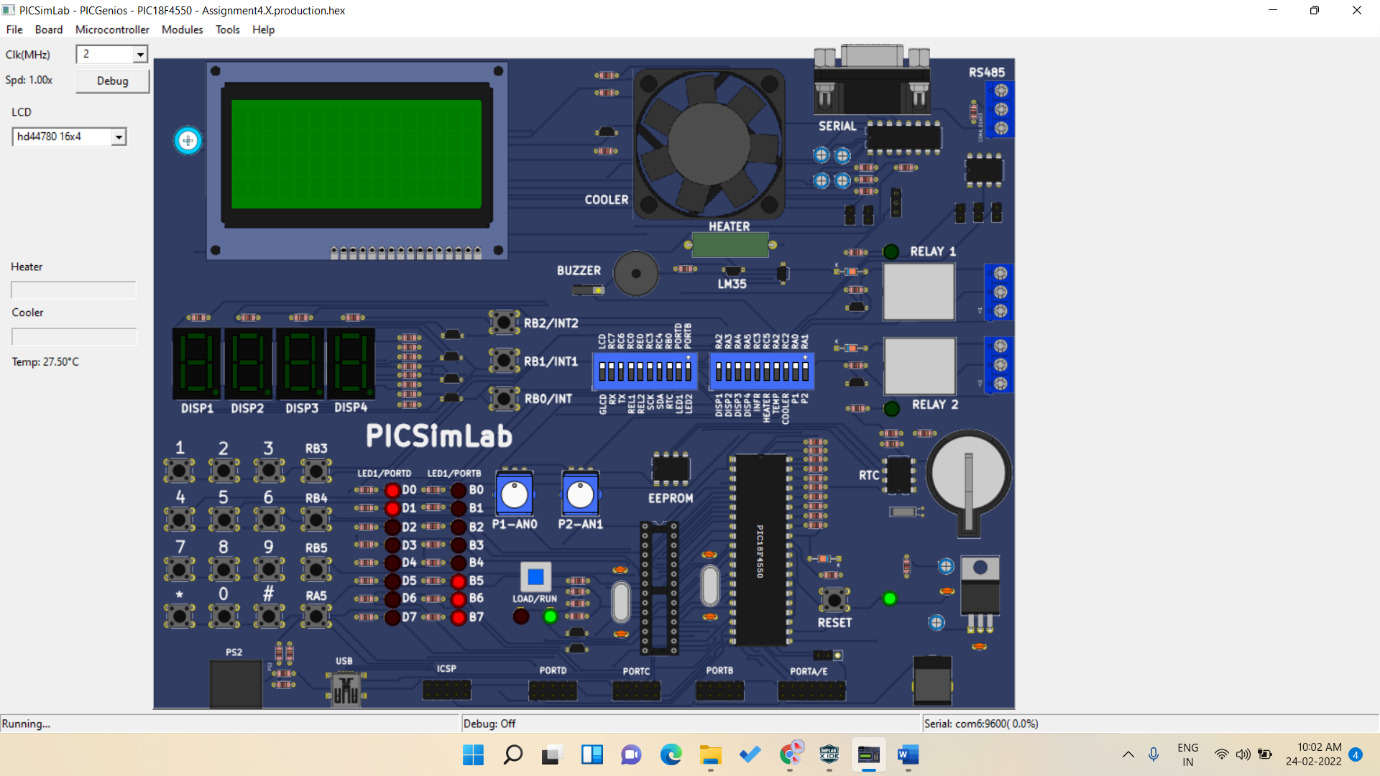


2)PICSIMLAB OUTPUT

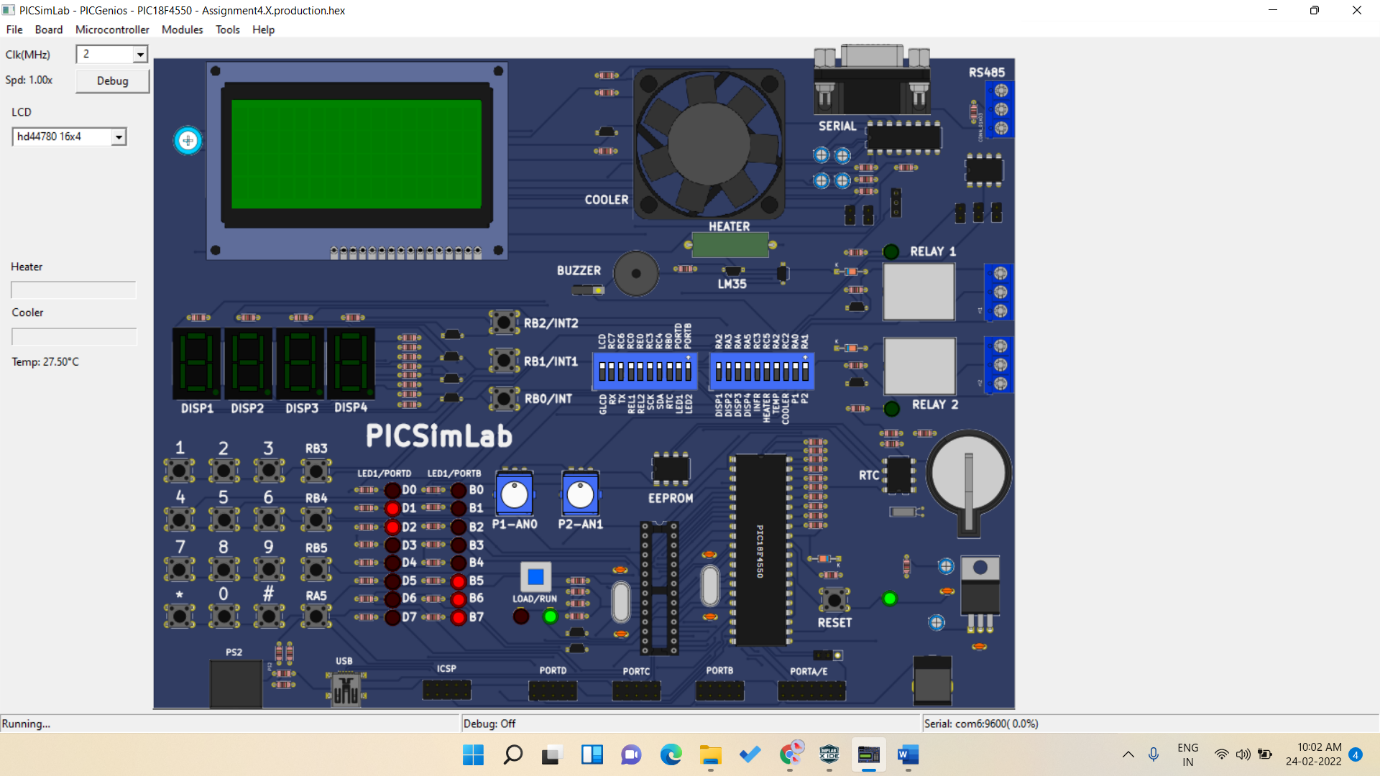
A]02



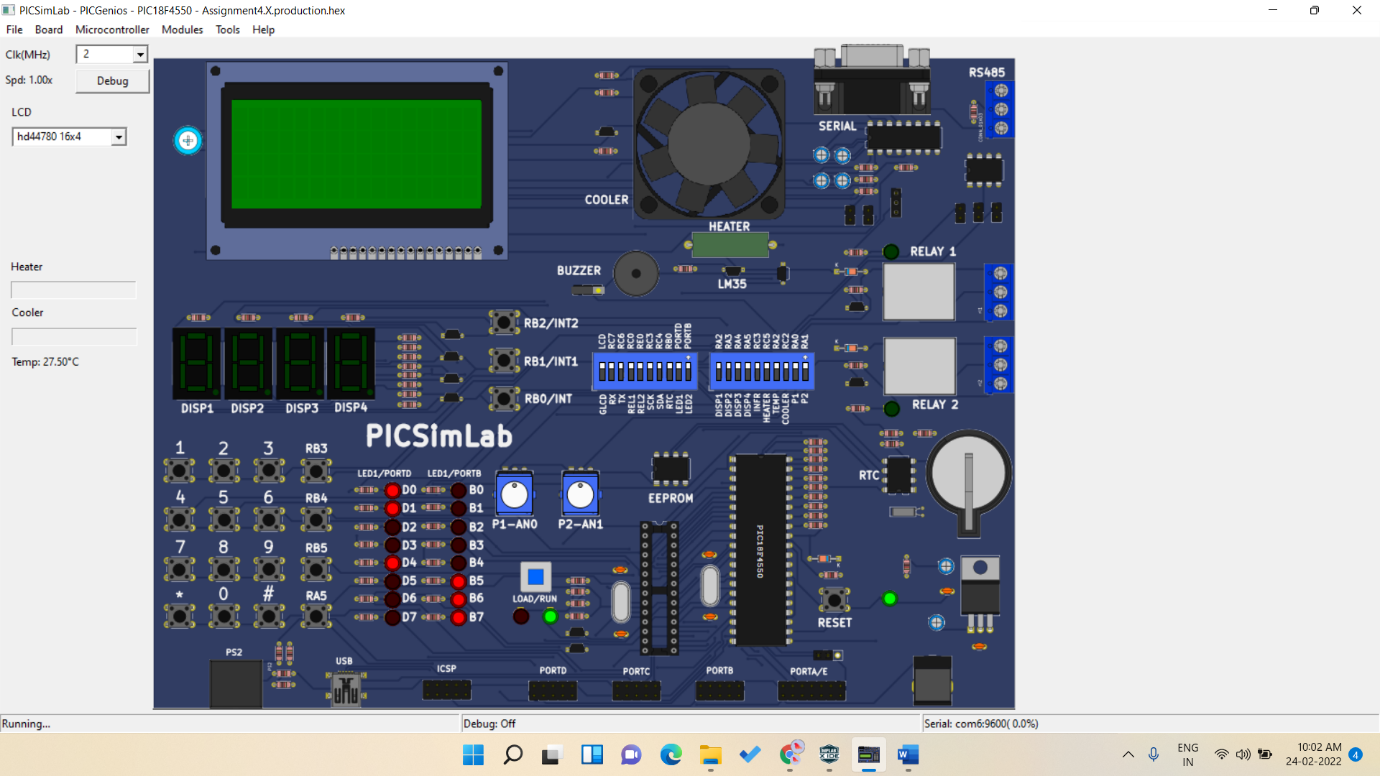
B]03



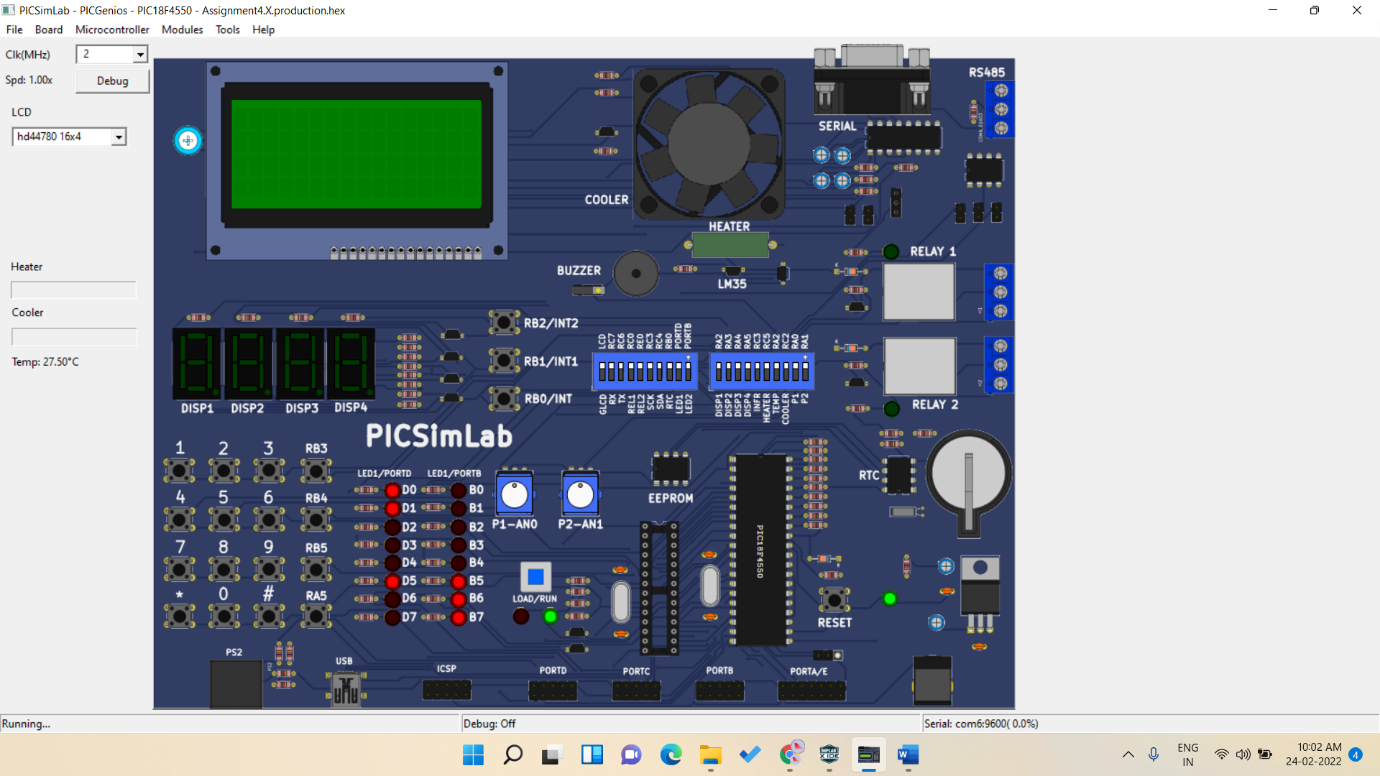
C]06



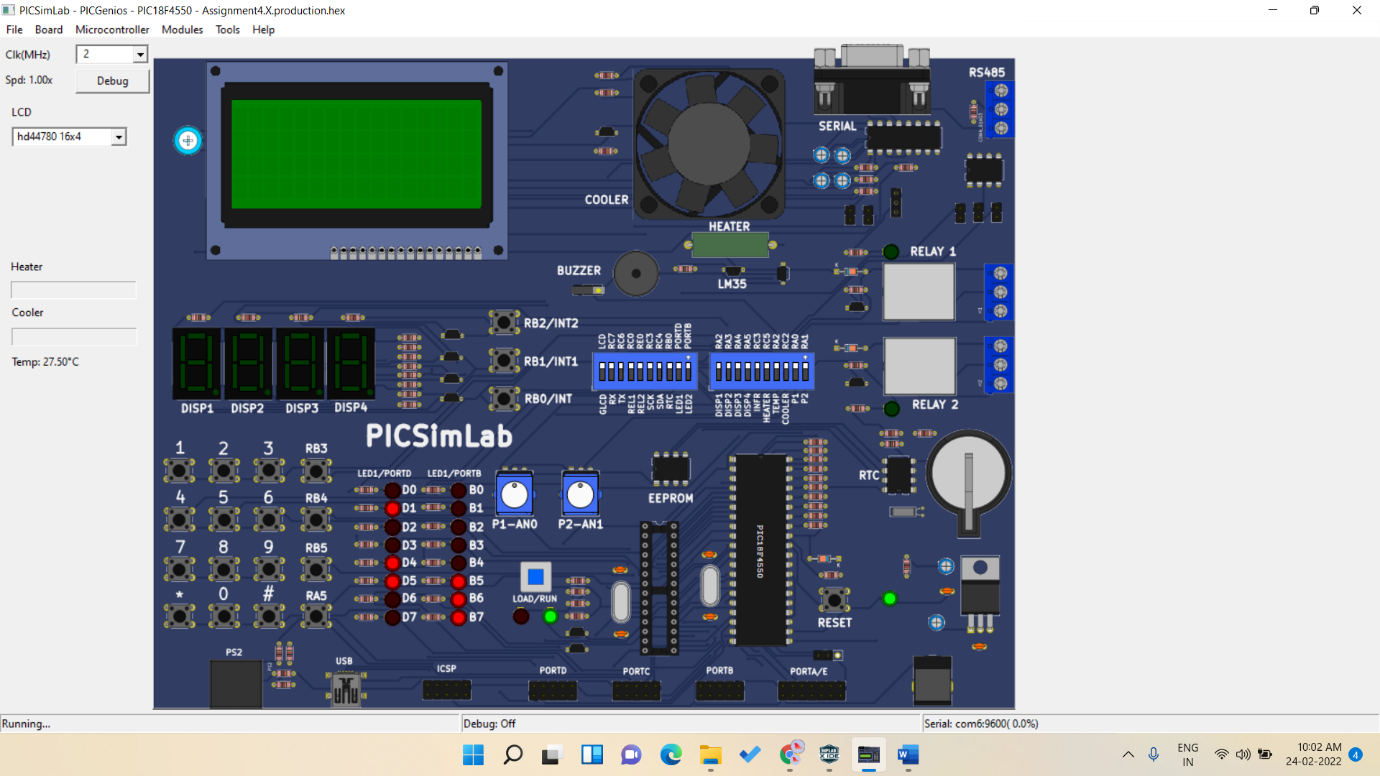
D]13



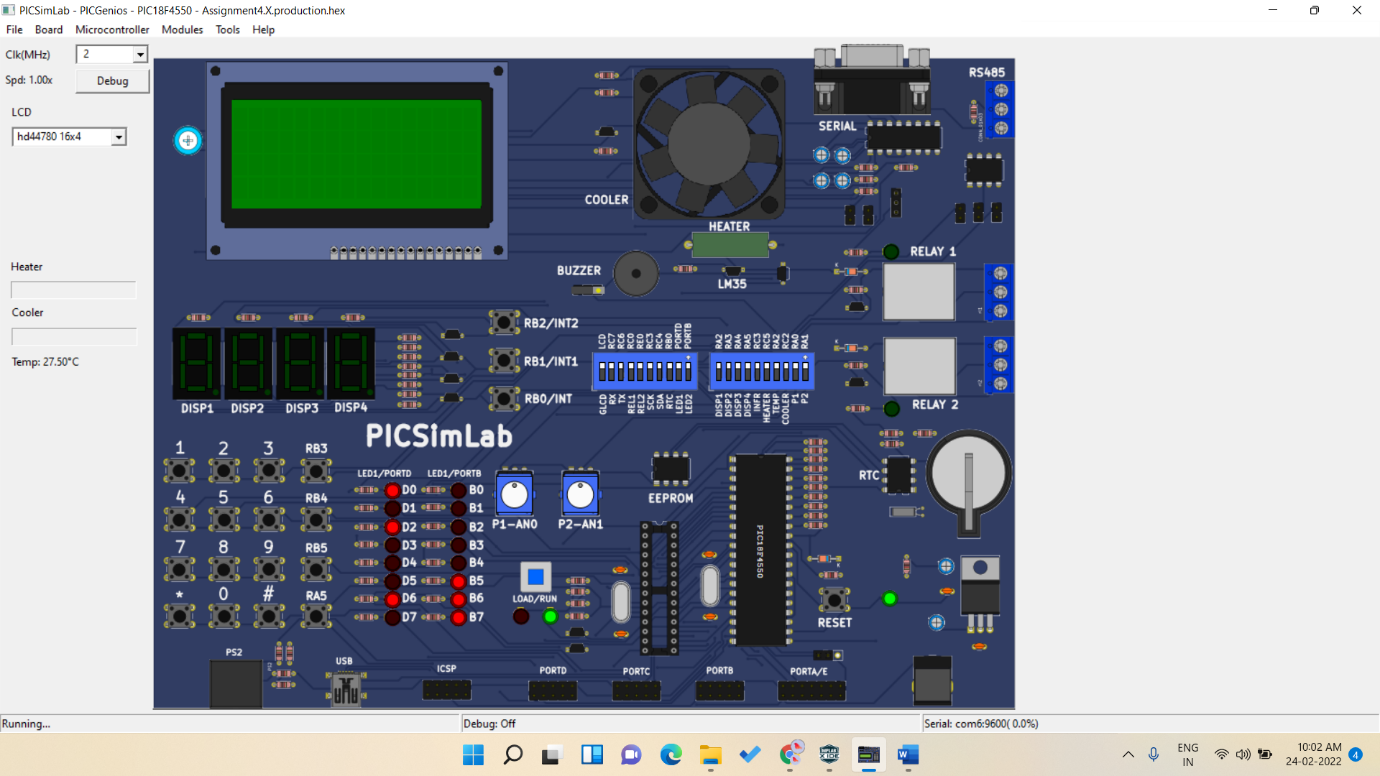
E]23



F]32



G]45



H]50

