**Pune Institute Of Computer Technology Dhankawadi,**

**Pune – 43.**

Assignment No. 3

PSDL

**SE-IT-10 ACADEMIC YEAR :- 2020-2021**

**Name :- Diptesh Ravindra Varule Roll No :- 23277**

**Problem Statement :**

Write embedded C programs for the following:

1. add the elements in an array, store the sum in the decimal form in PORTD(hundredth place) ,PORTC(tenth place), and PORTB(unit place).

**Source Code** :

/\*

\* File: sum.c

\* Author: Diptesh Varule

\* Batch : H10

\* Roll No. : 23277

\* Created on March 19, 2021, 1:32 PM

\*

\*/

#include <xc.h>

int arr[5]={21,45,12,54,64};

int a,b,c,sum=0;

void main(void)

{

TRISB=0X00;

TRISC=0X00;

TRISD=0X00;

for(int i=0;i<5;i++)

{

sum=sum+arr[i];

}

PORTB=sum%10;

a=PORTB;

sum=sum/10;

PORTC=sum%10;

b=PORTC;

sum=sum/10;

PORTD=sum%10;

c=PORTD;

return;

}