**Practical : 3**

**Code :**

#include<stdio.h>

#include<math.h>

int main(){

float mean , X\_bar,LB1,UB1,LB2,UB2,SD = 3.0,z1 = 1.96,z2 = 2.58;

int n ,i ,sum = 0;

printf("The number of sample of the scores :" );

scanf("%d",&n);

int a[n];

printf("Enter the scores : ");

for(i=0;i<n;i++){

scanf("%d",&a[i]);

}

for(i=0;i<n;i++){

sum = sum + a[i];

}

X\_bar = (float)sum / n ;

LB1 = X\_bar - ((SD/sqrt(n))\*z1);

UB1 = X\_bar + ((SD/sqrt(n))\*z1);

LB2 = X\_bar - ((SD/sqrt(n))\*z2);

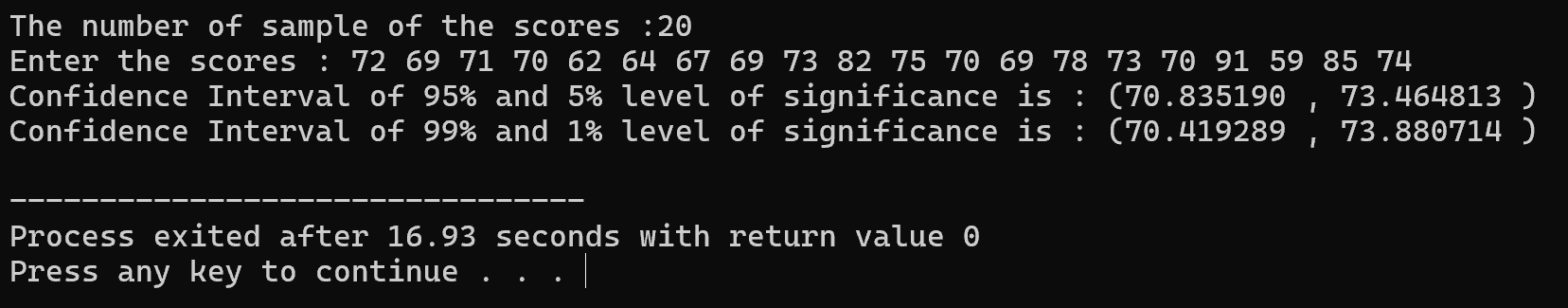
UB2 = X\_bar + ((SD/sqrt(n))\*z2);

printf("Confidence Interval of 95%% and 5%% level of significance is : (%f , %f )\n",LB1,UB1);

printf("Confidence Interval of 99%% and 1%% level of significance is : (%f , %f )\n",LB2,UB2);

}

**Output :**

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