REPUBLIQUE ALGERIENNE DEMOCRATIQUE ET POPULAIRE
الجـمـهـوريــة الجـزائـريــة الديـمـقـراطيــة الشـعـبيــة
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ET DE LA RECHERCHE SCIENTIFIQUE
ESSA
وزارة التعليـم العالـي والبحـث العلمـي
المـدرسـة العليـا فـي العلوم التطبيقيــة
-تلمسان-
ECOLE SUPERIEURE EN SCIENCES APPLIQUEES
-T L E M C E N-

Practical Work Number 4

Programming in C - Functions - Part 1

Exercise 1

Consider the following program:

```
#include <stdio.h>
float X;
```

1
```
void Display_number(float N);
float Division(float x, float y);
```

2
```
void Display_number(float N)
{ printf("The number is %.2f\n", N); }
```

3
```
float Division(float x, float y)
{  float z;
   z = x / y;
   return z;}
```

4
```
int main()
{ float A, B, C, X;
    printf("Enter number A\n");
    scanf("%f", &A);
    printf("Enter number B\n");
    scanf("%f", &B);
    printf("Enter number X\n");
    scanf("%f", &X);
    C = Division(A, B);
    Display_number(C);
    Display_number(X);
    return 0;}
```

- What are the predefined functions and the functions defined by the developer in this program?

-Among the defined functions, which ones are procedures?

-Define blocks 1, 2, 3, and 4.

-Provide the execution result of this program for A=16, B=3, X=10.

Practical Exercise 2

Write a procedure that calculates and displays the product of all elements in an array of integers. This procedure should take the array and its size as input parameters.