

Computer Organization:

Class Assignment 1

Question Statement: Write a C program to divide two numbers.

Code:

```
// Program for division of two numbers
#include <stdio.h>

int main()
{
    double a, b;

    printf("Enter Number 1 :\n");

    scanf("%lf", &a);

    printf("Enter Number 2 :\n");

    scanf("%lf", &b);

    if (b != 0)
    {
        double ans = (a / b);
        printf("a/b = %lf", ans);
    }
    else
    {
        printf("Divide by Zero Error!");
    }

    return 0;
}
```

Sample Test Cases:

1.) [100, 25] (Perfectly Divisible Integer Pair)

```
Enter Number 1 :
100
Enter Number 2 :
25
a/b = 4.000000
```

2.) [23, 12] (Not-Completely Divisible Integer Pair)

```
Enter Number 1 :  
23  
Enter Number 2 :  
12  
a/b = 1.916667
```

3.) [20, 0] (Divide by Zero Error)

```
Enter Number 1 :  
20  
Enter Number 2 :  
0  
Divide by Zero Error!
```

4.) [2.50, 1.25] (Perfectly Divisible Decimal Pair)

```
Enter Number 1 :  
2.50  
Enter Number 2 :  
1.25  
a/b = 2.000000
```

5.) [27.12, 13.25] (Not-Completely Divisible Decimal Pair)

```
Enter Number 1 :  
27.12  
Enter Number 2 :  
13.25  
a/b = 2.046792
```

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