VIT - Vellore

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BCSE102P_Structured and Object Oriented Programming Lab_VL2024250502365

VIT V_Structured and OOP_Lab 4_COD_Medium_Union

Attempt : 1
Total Mark : 10
Marks Obtained : 10

Section 1 : Coding

1. Problem Statement

Caroline loves exploring the world of complex numbers and needs your help to perform addition operations. She wants to use a union named ComplexNumber to represent complex numbers with real and imaginary parts.

Write a program to help Caroline perform complex number addition.

Answer

```
// You are using GCC
#include<stdio.h>
union ComplexNumber{
    struct {
```

```c
    double real;
    double imag;
  };
};
int main()
{
  union ComplexNumber a,b,sum;
  scanf("%lf %lf",&a.real,&a.imag);
  scanf("%lf %lf",&b.real,&b.imag);
  sum.real = a.real+b.real;
  sum.imag = a.imag+b.imag;
  printf("%.2lf + %.2lfi\n",sum.real,sum.imag);
  return 0;
}
```

Status : Correct   *Marks : 10/10*