**Question # 01**: Write a C program that creates a structure **Complex** which represents fields by integers **real and imaginary.** Program allows the user to enter the **real** and **imaginary** parts complex number and then print the **complex number** on the screen.

For example if user entered two complex numbers as

**Enter Real part = 12**

**Enter imaginary Part = 4**

Then output of program will be

**Addition of complex no = 12 + 4i**

**Question # 02**:Write a C program that creates a structure **Complex** which represents fields by integers **real and imaginary.** Program allows the user to enter the **real** and **imaginary** parts of two complex numbers. This program calculates the sum of two complex numbers which will be entered by the user. Program will add **real parts** and **imaginary parts** of complex numbers and prints the sum of complex number on the screen.

For example if user entered two complex numbers as

**Enter Real part = 12**

**Enter imaginary Part = 4**

**Enter Real part = 3**

**Enter imaginary Part = 5**

Then output of program will be

**Addition of complex no = 15 + 9i**

**Question # 03:**Create a structure called **Distance** that uses two elements **feet’s**  and **inches**. In main () create **Distance variables**, get the values from the user and then **print the result in feet**.

For example if user entered one Distance variable as

**Enter feet’s = 4**

**Enter Inches Part = 9.2**

Then output of program will be

**Total Feet’s = 4.7667**

**Question # 04:**Create a structure called **Rational** which represent a numerical value by double values **num** & **dnum**. Program allows the user to create **structure variable** and enter the data in it and then print the **rational number** on the screen.

For example if user enters two rational numbers as

**Enter numerator= 5**

**Enter denominator = 4**

Then output of program will be

**Rational No = 5/4**

**Question # 05:**Create a structure called **Rational** which represent a numerical value by double values **num** & **dnum**. Program allows the user to create two **structure variables** and enter the data in them, your program calculates the sum of two Rational numbers which will be entered by the user and then prints the sum of rational numbers on the screen.

For example if user enters two rational numbers as

**Enter numerator= 2**

**Enter denominator = 3**

**Enter numerator= 1**

**Enter denominator = 6**

Then output of program will be

**Rational No = 9/18**