Structure and Pointer

Q 1. What is a pointer in C programming language?

Ans1: A pointer is a variable that contains the address of another location. Pointer provides you a facility to use a garbage memory locations.

Q 2. Pointers can't add each other! Explain.

Ans2: we can't add pointers together. Because pointer can contain only address details of particular location, there is no way to retrieve the value from this operation.

Q3- What do you understand by structure used in c?

Ans3- **Structure-**A structure is user defined data type which help the programmer to store different type of data in same program in different memory location.

Ex-

struct [structure tag]

{

 member definition;

 member definition;

 ...

 member definition;

}

Q4- write a program to store imaginary and real number by using structure.

Ans4-

```c
#include <stdio.h>

struct complex
{
  int imaginary;
  float real;
};


struct number
{
  struct complex comp;
  int integer;
}
num1;


int main()
{

  num1.comp.imaginary = 20;
  num1.comp.real = 8.5;
  num1.integer = 10;
printf("Imaginary: %d\n", num1.comp.imaginary);
```

```c
    printf("Real: %.2f\n", num1.comp.real);

    printf("Integer: %d", num1.integer);

    return 0;

}
```