EXAMPLE

```
For a student store the following :
name (String)
roll no (Integer)
cgpa (Float)
```

Syntax

```
struct student {
    char name[100];
    int roll;
    float cgpa;
};
struct student s1;
s1.cgpa = 7.5;
```

Syntax

```
struct student {
    char name[100];
    int roll;
    float cgpa;
}
```

Structures in Memory

```
struct student {
   char name[100];
   int roll;
   float cgpa;
}
```



structures are stored in contiguous memory locations

Benefits of using Structures

- Saves us from creating too many variables
- Good data management/organization

Array of Structures

```
struct student ECE[100];

struct student COE[100];

struct student IT[100];

ACCESS

IT[0].roll = 200;

IT[0].cgpa = 7.6;
```

Initializing Structures

```
struct student s1 = { "shradha", 1664, 7.9};
struct student s2 = { "rajat", 1552, 8.3};
struct student s3 = { 0 };
```

Pointers to Structures

```
struct student s1;
struct student *ptr;
ptr =&s1;
```

Arrow Operator

```
(*ptr).code ←→ ptr->code
```

Passing structure to function

```
//Function Prototype void printlnfo(struct student s1);
```

```
typedef Keyword

used to create alias for data types

typedef struct ComputerEngineeringStudent{
   int roll;
   float cgpa;
   char name[100];
} coe;
```

coe student1;