**DIFFERENCE BETWEEN STRUCTURE AND UNION IN C:**

|  |  |
| --- | --- |
| **C Structure** | **C Union** |
| Structure allocates storage space for all its members separately. | Union allocates one common storage space for all its members. Union finds that which of its member needs high storage space over other members and allocates that much space |
| Structure occupies higher memory space. | Union occupies lower memory space over structure. |
| We can access all members of structure at a time. | We can access only one member of union at a time. |
| Structure example: struct student { int mark; char name[6]; double average; }; | Union example: union student { int mark; char name[6]; double average; }; |
| For above structure, memory allocation will be like below. int mark – 2B char name[6] – 6B double average – 8B  Total memory allocation = 2+6+8 = 16 Bytes | For above union, only 8 bytes of memory will be allocated since double data type will occupy maximum space of memory over other data types.  Total memory allocation = 8 Bytes |