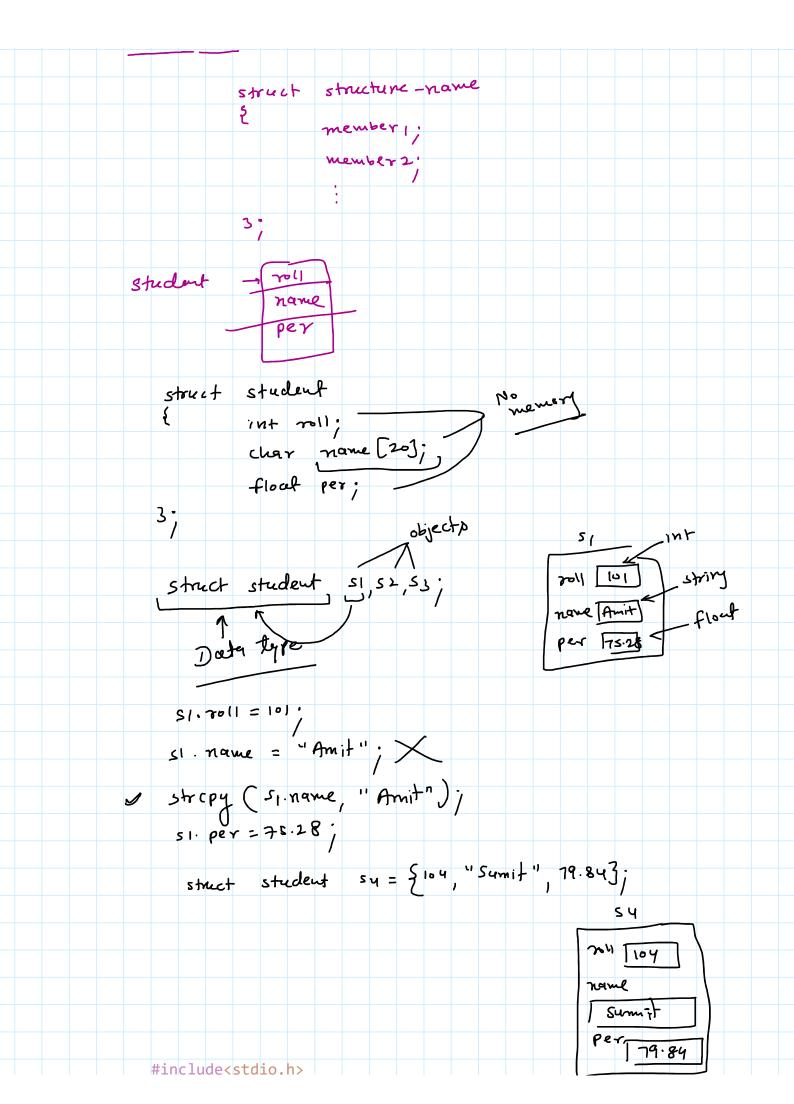


```
* A function can accept any number of arguments but return max one value.
         vold
                            cesing function
     Swap
     #include<stdio.h>
     void swap(int a, int b)
                                  //a=20 b=10
         int temp = a;
         a=b;
         b=temp;
         printf("%d %d",a,b);
         return;
value }
     int main()
         int a,b;
         printf("Enter 2 numbers:");
         scanf("%d%d",&a,&b);
         swap(a,b);
                        //a=10 b=20
         return 0;
                          Actual parameters
     }
  call by Address .
  #include<stdio.h>
  //temp = a=10
     int temp = *p1;
     *p1 = *p2;
     *p2 = temp;
     return;
  int main()
     int a,b;
     printf("Enter 2 numbers:");
     scanf("%d%d",&a,&b);
                //a=20 b=10
     swap(&a,&b);
     printf("%d %d",a,b);
```

```
return 0;
Pointer - array :-
                                                100 LOY 108 112 116
       int 9[5] = {10,20,30,40,503;
                                            of 10 40 30 100 20
          a[2] , *(9+2)
       | 100 + 2 \rightarrow (108) 
| 100 + 2 \rightarrow (108) 
| 100 + 2 \rightarrow (108) 
sum of an array using function
#include<stdio.h>
int sum(int *arr, int n)
     int temp = 0,i;
     for(i=0;i<n;i++)
         temp += i[arr];
    return temp;
int main()
     int a[5]={10,20,30,40,50};
     int n=5;
     int ans = sum(a,n);
     printf("%d",ans);
     return 0;
  structure :
```



```
#include<stdio.h>
   #include<string.h>
   struct student{
       int roll;
       char name[20];
       float per;
   };
   int main()
       struct student s1={101, "amit", 55.45};
       struct student s2;
       s2.roll=102;
       s2.per=67.51;
       strcpy(s2.name, "Sumit");
       printf("%d\t%s\t%.2f\n",s1.roll,s1.name,s1.per);
       printf("%d\t%s\t%.2f\n",s2.roll,s2.name,s2.per);
       return 0;
#include<stdio.h>
#include<string.h>
struct student{
    int roll;
    char name[20];
    float per;
};
struct student input()
    struct student temp;
    printf("Enter roll, name and per of a student");
    scanf("%d",&temp.roll);
    fflush(stdin);
    gets(temp.name);
    scanf("%f",&temp.per);
    return temp;
int main()
{
    struct student s1,s2;
    s1 = input();
    s2 = input();
    printf("%d\t%s\t%.2f\n",s1.roll,s1.name,s1.per);
    printf("%d\t%s\t%.2f\n",s2.roll,s2.name,s2.per);
    return 0;
```

```
Pointer
                                               5 |
                                451
   strict students,
                                            7011
      struct student +P = 451;
        51. roll - object to member
        P-> roll -> pointer to member
       (*P). roll
#include<stdio.h>
#include<string.h>
struct student{
    int roll;
    char name[20];
   float per;
};
void input(struct student *p)
   printf("Enter roll, name and per of a student");
    scanf("%d",&p->roll);
   fflush(stdin);
    gets(p->name);
   scanf("%f",&p->per);
int main()
   struct student s1,s2;
   input(&s1);
   input(&s2);
    printf("%d\t%s\t%.2f\n",s1.roll,s1.name,s1.per);
   printf("%d\t%s\t%.2f\n",s2.roll,s2.name,s2.per);
    return 0;
```

