ASSIGNMENT - 4

```c
#include<stdio.h>
#include<stdlib.h>
struct stuff

  {
          char name[100];
          int  prise;
          int  quantity;
          int id;
  }*sumit;

  void creat(struct stuff *sumit);
  void display(struct stuff *sumit);
  void search();
  int  n;

  void main()
{

int choice;
  sumit=(struct stuff*)malloc(sizeof(struct stuff)*100);
while(1)
{
 printf("enter the choice");
 scanf("%d",&choice);
 switch(choice)
 {

          case 1:creat(sumit);
          break;
          case 2:display(sumit);
          break;
          case 3:search();
          break;
          default:
          printf("wrong choice");
          break;
  }
}
}

void creat(struct stuff *sumit)
  {

   printf("how many product");
   scanf("%d",&n);

   for(int i=0;i<n;i++)
          {
          printf("enter the ID of the product");
                scanf("%d",&sumit[i].id);
          printf("enter the name of product");
                scanf("%s",sumit[i].name);
       printf("enter the prise of product");
          scanf("%d",&sumit[i].prise);
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```c
        printf("enter the quantity of product");
        scanf("%d",&sumit[i].quantity);

            }
    }
void display(struct stuff *sumit)
        {
          for(int i=0;i<n;i++)
        {
                    printf("\n ID %d",sumit[i].id);
                    printf("\n name %s",sumit[i].name);
                    printf("\n prise %d",sumit[i].prise);
                    printf("\n quantity %d",sumit[i].quantity);
            }
          }
void search()
{
int key;
int entered = 0;

printf("Enter ID you want to search: ");
scanf("%d", &key);
for(int i = 0; i < n; i++)
{
        if(sumit[i].id == key)
        {
                    printf("Match found!");
                    printf("\n ID %d",sumit[i].id);
                    printf("\n name %s",sumit[i].name);
                    printf("\n prise %d",sumit[i].prise);
                    printf("\n quantity %d",sumit[i].quantity);
                    entered = 1;
        }
}
if(entered == 0)
{
        printf("Not found!\n");
}
}
```

output:
enter the choice
1.creat data   2.display data   3.search data
1
how many product2
enter the ID of the product32
enter the name of productsd
enter the prise of product34
enter the quantity of product45
enter the ID of the product34
enter the name of productsd
enter the prise of product34
enter the quantity of product45
enter the choice
1.creat data   2.display data   3.search data
2

ID 32
name sd
prise 34
quantity 45
ID 34
name sd
prise 34
quantity 45enter the choice
1.creat data   2.display data   3.search data
3
Enter ID you want to search: 34
Match found!
ID 34
name sd
prise 34
quantity 45enter the choice
1.creat data   2.display data   3.search data
3
Enter ID you want to search: 32
Match found!
ID 32
name sd
prise 34
quantity 45enter the choice
1.creat data   2.display data   3.search data