Assignment 5

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

  {
    int products;
    int id;
            char name[100];
            int  price;
            int  quantity;
            int specification;
  }*sumit;

   void creat(struct stuff *sumit);
   void display(struct stuff *sumit);
   void search();
   void sort();
   int  n;
  void main()
{
  int choice;
  sumit=(struct stuff*)malloc(sizeof(struct stuff)*100);
  while(1)
{
  printf("enter the choice\n");
  printf("1.create a data\t 2.display the data\t3.search the data\t4.sort the data");
  scanf("%d",&choice);
  switch(choice)
  {

            case 1:creat(sumit);
            break;
            case 2:display(sumit);
            break;
            case 3:search();
       break;
    case 4:sort();
       break;
            default:
            printf("wrong choice");
            break;
   }
}
}
void creat(struct stuff *sumit)
   {

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

    for(int i=0;i<n;i++)
            {
               printf("products\t");
               printf("id\t");
               printf("name\t");
```

```
        printf("price\t");
        printf("quantity\t");
        printf("specification\n");
        scanf("%d\t\t\t",&sumit[i].products);
                scanf("%d\t",&sumit[i].id);
        scanf("%s\t",sumit[i].name);
        scanf("%d\t",&sumit[i].price);
        scanf("%d\t",&sumit[i].quantity);
        scanf("%d\n",&sumit[i].specification);


            }
    }
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 price %d",sumit[i].price);
                        printf("\n quantity %d",sumit[i].quantity);
                        printf("\n specification %d",sumit[i].specification);
              }
            }
            void search()
            {
               int key;
               int enter=0;
            printf("enter the ID you want search:");
            scanf("%d",key);
              for(int i=0;i<n;i++)
       {
          if(key==sumit[i].id)
          {
             printf("match is found");
             {
        printf("\n id%d",sumit[i].id);
                        printf("\n name %s",sumit[i].name);
                        printf("\n price %d",sumit[i].price);
                        printf("\n quantity %d",sumit[i].quantity);
                        printf("\n specification %d",sumit[i].specification);
             }
           enter=1;
          }
       }
       if(enter==0)
        printf("NO RECORD");
            }
void sort()
{
   int  temp, min_index;

    for(int i = 0; i < n-1; ++i)
    {
       min_index = i;
       for (int j = i+1; j < n; ++j)
       {
```

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            if(sumit[j].id < sumit[min_index].id)
                min_index = j;
        }

        temp = sumit[i].id;
        sumit[i].id = sumit[min_index].id;
        sumit[min_index].id = temp;
    }

    printf("sorted array in acending order:\n");
    for(int i = 0; i < n; i++)
        printf("%d\t",sumit[i].id);
    printf("\n");

    return 0;
}
```

OUTPUT:

```
enter the quantity of product6
enter the choice
1.creat data        2.display data        3.search data  4.sort data
2

ID 233
name computer
prise 345
quantity 34
ID 2567
name keyboard
prise 45
quantity 6enter the choice
1.creat data        2.display data        3.search data 4. sort data
4
sorted array in acending order:
233         2567
enter the choice
1.creat data        2.display data        3.search data 4.sort data
```