ASSIGNMENT#04

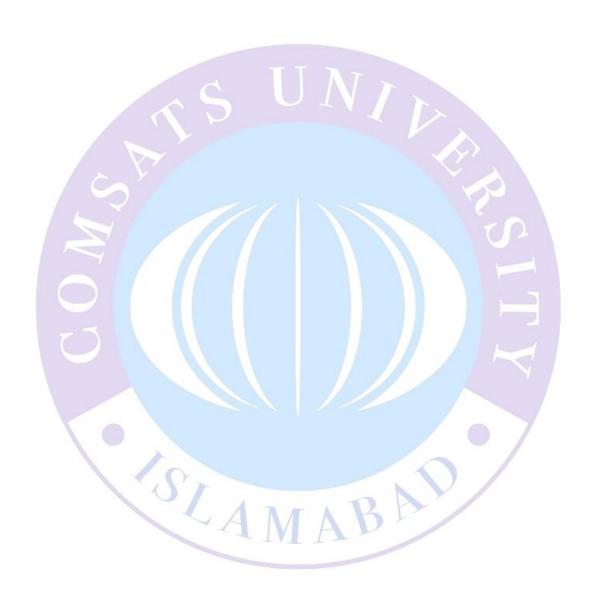
CSC103-Programming Fundamentals



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CODES:

```
#include <stdio.h>
#include<string.h>
struct inventory{
int record;
char tool_name[30];
int quantity;
float cost;
          };
int main() {
struct inventory inv[100]= {{3,"Electric
sander",7,57.98},{17,"Hammer",76,11.99},{24,"Jigsaw",21,11.00},
           {39,"Lownmower",3,79.50},{56,"Powersaw",18,99.99},{68,"Screwdriver",106,6.99},
           {77, "Sledgehammer", 11, 21.50}, {83, "Wrench", 34, 7.50}};
struct inventory dell= {0,"",0,0.0};
int list,n1;
\4\4\4"
     printf("|%3s|%19s|%19s|%17s|\n","RECORD","TOOL NAME","QUANTITY","COST");
for (int i=0;i<=7;i++) {
printf("\4_
 __\4\n");
  printf("\4%3d\n",inv[i].record);
  printf("%25s",inv[i].tool_name);
```

```
printf("%19d",inv[i].quantity);
  printf("%23.2f\n",inv[i].cost);
}
\4\4\4\4\4\4"
  printf("\nEnter 1 to add record\nEnter 2 to update record\nEnter 3 to delete record\nEnter 4 to
print record\n\nEnter 0 to exit\n");
scanf("%d",&list);
while(list!=0){
switch (list) {
case 1:
 printf("Enter record number: ");
                  STAMABAD
 scanf("%d",&n1);
inv[n1].record=n1;
 printf("Enter name:");
 fflush(stdin);
gets(inv[n1].tool_name);
 printf("Enter quantity:");
 scanf("%d",&inv[n1].quantity);
 printf("Enter cost:");
 scanf("%f",&inv[n1].cost);
```

```
break;
case 2:
 printf("Enter record no. to update: ");
 scanf("%d",&n1);
for (int i=0;i<100;i++) {
if(inv[i].record==n1) {
inv[i].record=n1;
fflush(stdin);
 printf("Enter tool name:");
 gets(inv[i].tool_name);
 printf("Enter quantity:");
 scanf("%d",&inv[i].quantity);
 printf("Enter cost:");
 scanf("%f",&inv[i].cost);
}
}
break;
case 3:
 printf("Enter record to delete: ");
 scanf("%d",&n1);
for (int i=0;i<100;i++) {
if (inv[i].record==n1) {
  inv[i]=dell;
}
break;
case 4:
 printf("\n\n");
\4\4\4"
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```

```
printf("|%3s|%19s|%19s|%17s|\n","RECORD","TOOL NAME","QUANTITY","COST");
for (int i=0;i<100;i++) {
if (inv[i].record!=0)
printf("|
__|\n");
  printf("|%3d\n",inv[i].record);
  printf("%25s",inv[i].tool_name);
  printf("%19d",inv[i].quantity);
  printf("%23.2f\n",inv[i].cost);
}
}
\4\4\4"
    break;
}
 printf("\nEnter 1 to add record\nEnter 2 to update record\nEnter 3 to delete record\nEnter 4 to
print record\n\nEnter 0 to exit\n");
  scanf("%d",&list);
}
return 0;
}
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```

OUTPUT:

Printing simple table:

"C:\Users\Aoun Haider\Documents\Untitled1.exe"

ECORD	TOOL NAME	QUANTITY	COST
3	Electric sander	7	57.98
17	Hammer	76	11.99
24	Jigsaw	21	11.00
39	Lownmower	3	79.50
56	Powersaw	18	99.99
68	Screwdriver	106	6.99
77	Sledgehammer	11	21.50
83	Wrench	34	7.50

Enter 1 to add record

Enter 2 to update record

Enter 3 to delete record

Enter 4 to print record

Enter 0 to exit

Adding new record:

```
"C:\Users\Aoun Haider\Documents\Untitled1.exe"
Enter record number: 22
Enter name:ranch
Enter quantity:33
Enter cost:77.5
Enter 1 to add record
Enter 2 to update record
Enter 3 to delete record
Enter 4 to print record
Enter 0 to exit
RECORD
               TOOL NAME
                                  QUANTITY
                                                     COST
 3
        Electric sander
                                     7
                                                      57.98
17
                                     76
                Hammer
                                                      11.99
24
                                     21
                                                      11.00
                Jigsaw
 39
              Lownmower
                                     3
                                                      79.50
56
                                                      99.99
                                    18
              Powersaw
68
            Screwdriver
                                    106
                                                       6.99
 77
                                    11
                                                      21.50
           Sledgehammer
83
                Wrench
                                     34
                                                       7.50
22
                                                      77.50
```

Updating record:

Enter record no. to update: 77

```
Enter tool name:Saw
Enter quantity:23
Enter cost:44.5
Enter 1 to add record
Enter 2 to update record
Enter 3 to delete record
Enter 4 to print record
Enter 0 to exit
RECORD
              TOOL NAME
                                 QUANTITY
                                                    COST
        Electric sander
                                     7
                                                     57.98
 17
                Hammer
                                    76
                                                     11.99
24
                                    21
                                                     11.00
                Jigsaw
39
                                                     79.50
             Lownmower
                                     3
 56
                                    18
                                                     99.99
              Powersaw
68
            Screwdriver
                                                      6.99
                                   106
77
                                    23
                                                     44.50
                   Saw
83
                                                      7.50
Enter 1 to add record
Enter 2 to update record
Enter 3 to delete record
     FA21-BSE-133
```

Deleting record:

"C:\Users\Aoun Haider\Documents\Untitled1.exe"

```
Enter record to delete: 68
Enter 1 to add record
Enter 2 to update record
Enter 3 to delete record
Enter 4 to print record
Enter 0 to exit
RECORD
               TOOL NAME
                                                     COST
                                  QUANTITY
  3
        Electric sander
                                     7
                                                      57.98
 17
                Hammer
                                    76
                                                      11.99
 24
                Jigsaw
                                    21
                                                      11.00
 39
                                     3
                                                      79.50
              Lownmower
 56
                                                      99.99
                                    18
              Powersaw
77
                                                      21.50
           Sledgehammer
                                    11
 83
                Wrench
Enter 1 to add record
Enter 2 to update record
Enter 3 to delete record
Enter 4 to print record
Enter 0 to exit
      FA21-BSE-133
```