

**01)**

```
#include <stdio.h>
int main(){
    struct book{
        char name[50];
        char author[50];
        float price;
        int no_of_pages;
    };
    struct book b1 = {"Beginning Java Script", "Wilton Paul",
        155.75, 122};
    struct book b2 = {"C - How to program", "P.J.Deitel",
        250.00, 344};
    struct book b3 = {"Data Structures", "Collins William",
        125.00, 456};
    struct book b4 = {"Database systems", "B.Shamkant",
        144.00, 82};
    struct book b5 = {"The C Answer Book", "E.Gimpel Scott",
        560.00, 235};
    printf("%s\t\t%s\t\t%.2f\t\t%d\n", b1.name, b1.author,
        b1.price, b1.no_of_pages);
    printf("%s\t\t%s\t\t%.2f\t\t%d\n", b2.name, b2.author,
        b2.price, b2.no_of_pages);
    printf("%s\t\t%s\t\t%.2f\t\t%d\n", b3.name, b3.author,
        b3.price, b3.no_of_pages);
    printf("%s\t\t%s\t\t%.2f\t\t%d\n", b4.name, b4.author,
        b4.price, b4.no_of_pages);
    printf("%s\t\t%s\t\t%.2f\t\t%d\n", b5.name, b5.author,
        b5.price, b5.no_of_pages);
    return 0;
}
```

**02)**

```
#include <stdio.h>
int main(){
    struct distance{
        int km;
        int m;
    };
    struct distance d1, d2;
    printf("Enter the number of kilometers : ");
    scanf("%d", &d1.km);
    printf("Enter the number of meters : ");
    scanf("%d", &d1.m);
    printf("Enter the number of kilometers : ");
    scanf("%d", &d2.km);
    printf("Enter the number of meters : ");
    scanf("%d", &d2.m);
    printf("The total distance is : %d km %d m"
        ,(d1.km+d2.km), (d1.m+d2.m));
    return 0;
}
```

**03)**

```
#include <stdio.h>
int main(){
const int N = 10;
int i, j;
struct marks_of_subjects{
float English;
float History;
float Science;
float Music;
};
struct marks_of_subjects m[N];
for(i=0; i<N; i++){
printf("Enter English, History, Science and Music marks of
student %d : ", i+1);
scanf("%f %f %f %f", &m[i].English, &m[i].History,
&m[i].Science, &m[i].Music);
}
printf("\n-----The Marks Table-----\n\n");
printf("Student\t\tEnglish\t\tHistory\t\tScience\t\tMusic\
n\n");
for(j=0; j<N; j++){
printf("%d\t\t%.2f\t\t%.2f\t\t%.2f\t\t%.2f\n", j+1,
m[j].English, m[j].History, m[j].Science, m[j].Music);
}
return 0;
}
```

**04)**

```
#include <stdio.h>
const int N = 4;
struct item{
char name[50];
float unit_price;
char color[10];
};
void finalBill(struct item itemArray[]);
int main(){
int x;
struct item itemArray[N];
for(x=0; x<N; x++){
printf("Enter the name, unit price, color of item %d : ",
x+1);
scanf("%s %f %s", &itemArray[x].name,
&itemArray[x].unit_price, &itemArray[x].color);
}
finalBill(itemArray);
return 0;
}
void finalBill(struct item itemArray[]){
int q[N], y, z;
float total=0;
for(y=0; y<N; y++){
printf("Enter the quantity bought in item %s : ",
itemArray[y].name);
scanf("%d", &q[y]);
}
printf("\n-----The Final Bill-----\n\n");
printf("Item\t\tUnit Price\tQuantity\tTotal\n\n");
for(z=0; z<N; z++){
printf("%s\t\t%.2f\t\t%d\t\t%.2f\n", itemArray[z].name,
itemArray[z].unit_price, q[z],
itemArray[z].unit_price*q[z]);
total+=itemArray[z].unit_price*q[z];
}
printf("\t\t\t\t%.2f\n", total);
return 0;
}
```