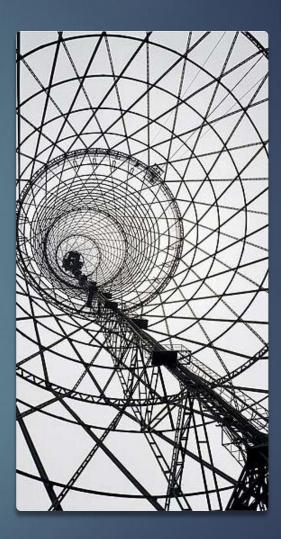


Structures

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Overview

- Defining a Structure
- Structure Initialization
- Accessing Structure Member
- How Structure Elements are Stored?
- Comparing of Array & Structure
- Array of Structure
- Initializing Array of Structure
- Nested Structure
- Pointers to Structure
- Function & Structure
 - Passing structure members to a function
 - Passing an entire structure to a function
 - Passing structure pointer to a function

Structure Definition (Structure Template Declaration)

```
struct tag_name{
    data_type member_1;
    data_type member_2;
    ...
    data_type member_n;
};
```

```
Example:
struct student{
    char name[50];
    int roll;
    float marks;
    char gender;
};
```

A structure is a collection of one or more than one variable, possibly of different data type, grouped together under a single name for convenient handling.

Example#1

```
C8_1.C
    #include<stdio.h>
                                    C:\Users\ErSKS\Google Drive
   #include<conio.h>
                                   Enter Name:
   struct account{
                                   Arpan Sharma
    int acc_no;
    char acc_type;
                                   Name = Arpan Sharma_
    char name[80];
       —float balance;
8
    struct account cust;
    int main(){
10
11
        printf("Enter Name: \n");
12
        //scanf("%s", cust.name);
13
        gets(cust.name);
14
        printf("\nName = %s", cust.name);
15
        getch();
16
        return 0;
```

Task

- ► WAP to read roll number & name of a student from console & display it after reading both parameters.
- WAP to read roll number & name of a student from console & display it after reading both parameters. Hint:- Use structure

Declaration of a Structure variable

[storage_class] struct tag variable_1, variable_2, ..., variable_n;

```
C8_2.c
   #include<stdio.h>
   #include<conio.h>
   struct{
        int acc_no;
        char acc_type;
        char name[80];
        float balance;
    }cust;
 9
    int main(){
        printf("Enter Name: ");
10
11
        //scanf("%s", cust.name);
        gets(cust.name);
12
        printf("\nName = %s", cust.name);
13
14
        getch();
15
   return 0;
16 }
```

```
struct account{
    int acc_no;
    char acc_type;
    char name[80];
    float balance;
};
struct account old_customer,
    new_customer;
```

Of mot account (

```
int account{
  int acc_no;
  char acc_type;
  char name[80];
  float balance;
}old_customer, new_customer;
```

Accessing Structure Member

Structure use a dot(.) operator to access individual elements.

- structure_name.member_name
 - printf("Book Name = %s", b1.name); // C Programming
 - printf("Book Name = %f", b1.price); // 130.00
 - printf("Book Name = %d", b1.pages); // 550
 - printf("Book Name = %s", b2.name); // ?
 - printf("Book Name = %f", b2.price); // ?
 - printf("Book Name = %d", b2.pages); // ?

Structure Initialization

Like primary variables and arrays, structure variables can also be initialized where they are declared. The format used is quite similar to that used to initialize arrays.

```
C8 3.C
                                         C:\Users\ErSKS\Google Drive
    #include<stdio.h>
                                       Book Details:
   #include<conio.h>
                                                Price
                                                        Pages
                                       Name
    struct book{
                                       Basic C 130.00
                                                        550
        char name[20];
                                       Math-I 150.50
                                                        800
        float price;
 6
        int pages;
    struct book b1={"Basic C",130.00,550};
    struct book b2={"Math-I",150.50,800};
 9
10
11
    int main(){
        printf("Book Details:\nName\tPrice\tPages\n");
12
13
        printf("%s\t%.2f\t%d", b1.name, b1.price, b1.pages);
        printf("\n%s\t%.2f\t%d", b2.name, b2.price, b2.pages);
14
15
        getch();
16
        return 0;
17
```

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How Structure Elements are Stored?

```
Window
         Edit
                Search Run
                              Compile
                                       Debug Project
                                                         Options
                                                                             Help
=[ | ]=
                                    C8 \ 3 \ 2.C =
                                                                           =1=[$]=
#include<stdio.h>
#include<conio.h>
                                         DOSBox 0.74, Cpu speed: max 100% cycles, Frame
struct student{
                                      Address of roll = 170, sizeof(roll) = 2
        int roll:
                                      Address of marks = 172, sizeof(marks) = 4
        float marks:
                                      Address of gender = 176, sizeof(gender) = 1
        char gender;
struct student s={25, 88.00, 'M'};
int main(){
        clrscrO:
        printf("Address of roll = xu, ", &s.roll);
        printf("sizeof(roll) = xd\n", sizeof(int));
        printf("Address of marks = zu, ", &s.marks);
        printf("sizeof(marks) = xd\n", sizeof(float));
        printf("Address of gender = xu, ", &s.gender);
        printf("sizeof(gender) = xd\n", sizeof(char));
        getch();
        return 0;
       16:37 ---
                                                              F9 Make
         Alt-F8 Next Msg
                           Alt-F7 Prev Msg
                                             Alt-F9 Compile
                                                                        F10 Menu
F1 Help
```

WAP to enter name, price & pages of 3 books & display entered information.

```
C8 4.C
                               C:\Users\ErSKS\Google Drive (c.khwopa@gmail.com)\C
    #include<stdio.h>
                              Enter Name, Price & No. of Pages of 3 Books:
    #include<conio.h>
                              C-Programming
                                            600
                                                    542
    struct book{
                              Learning-C
 3
                                            650
                                                    422
                              Let-Us-C
                                            336
                                                    748
        char name[20];
        float price;
                              This is what you entered
 6
        int pages;
                              C-Programming
                                            600.00
                                                    542
    };
                              Learning-C
                                            650.00
                                                    422
    struct book b1,b2,b3;
                              Let-Us-C
                                            336.00
                                                    748
 9
    int main(){
        printf("Enter Name, Price & No. of Pages of 3 Books:\n");
10
        scanf("%s%f%d",b1.name,&b1.price,&b1.pages);
11
        scanf("%s%f%d",b2.name,&b2.price,&b2.pages);
12
13
        scanf("%s%f%d",b3.name,&b3.price,&b3.pages);
14
        printf("\nThis is what you entered");
15
        printf("\n%s\t%.2f\t%d",b1.name,b1.price,b1.pages);
16
        printf("\n%s\t%.2f\t%d",b2.name,b2.price,b2.pages);
17
        printf("\n%s\t%.2f\t%d",b3.name,b3.price,b3.pages);
18
19
        getch();
20
        return 0;
21
```

Array vs. Structure

Array

- Collection of similar data types
- Derived data type
- Subscript/index is used to access the member of an array.
- Array behaves like a built-in data types only we need to declare to it.
- Example: int a[5];

Structure

- Collection of dissimilar data types
- User-defined data type
- Dot operator is used to access the member of a structure.
- First need to design & declare structure before the variable of that type are declared & used
- Example:

};

```
struct num{
int a; float b; char c;
```

Structure Assignment

The information contained in one structure may be assigned to another structure of the same type using a single assignment statement. That is, you do not need to assign the value of each member separately.

```
C8_5.C
   #include<stdio.h>
                                         C:\Users\ErSKS
   #include<conio.h>
                                     10 20
    struct{
        int a;
 4
        int b;
   }x, y;
    int main(){
8
        x.a = 10;
        x.b = 20;
        y = x; //Assign one structure to another
10
        printf("%d ", y.a);
11
        printf("%d", y.b);
12
13
        getch();
14
        return 0;
15
```

Nested Structure

```
char area [20];
                                                                                 };
     C8_6.C
                                                                                 struct employee{
    #include<stdio.h>
    #include<conio.h>
                                   C:\Users\ErSKS\Google Drive (c.khwopa@gmail.com)
                                                                                   char name[25];
 3 v struct employee{
                                  Employee Adress Area = Libali
                                                                                   longint emp code;
         char name[25];
                                                                                   char post[20];
         long int emp code;
                                                                                   float salary;
        char post[20];
 6
                                                                                 struct emp address adr1;
        float salary;
        struct emp_address{
                                                                                 } emp1, emp2;
             int no;
             char street[25];
10
11
             char area[20];
12
         }adr1;
    }e1 = {"Er. Shiva K. Shrestha",74801,"HoD",65000.00,8,"Garud Kundal Road","Libali"};
15 v int main(){
         printf("Employee Adress Area = %s", e1.adr1.area);
17
         getch();
18
         return 0;
19 }
```

struct emp address{

char street [25];

int no:

Two structures left figure can be consolidated as shown in program above

Example#7: We can also tag names to define inner structures

```
struct date{
 int month;
 int day;
 int year;
struct account{
 int acc_no;
 char acc_type;
 char name[80];
 float balance;
```

struct date last_payment;

}customers;

If a structure member is itself a structure, then a member of the embedded structure can be accessed by writing variable.member.sub_member

e.g. **customers.**last_payment.month

Example #8: A sample to demonstrate nesting of structure

```
C8_8.C
    #include<stdio.h>
   #include<conio.h>
                                   C:\Users\ErSKS\Google Drive (c.khwopa)
   struct address{
                                  Name=Jack
                                                 Phone=54515
       char phone[15];
 4
                                  City=KTM
                                                 City Code=101_
       char city[25];
       int citycode;
   };
    struct emp{
       char name[25];
 9
       struct address a;
10
11
12
    int main(){
       int i:
13
       struct emp e={"Jack","54515","KTM",101};
14
15
       printf("Name=%s\tPhone=%s",e.name,e.a.phone);
16
       printf("\nCity=%s\tCity Code=%d",e.a.city,e.a.citycode);
       getch();
17
18
       return 0;
19
```

```
C8_9.C
    #include <stdio.h>
                                                           C:\Users\ErSKS\Google Dri...
                                                                                        X
    #include<conio.h>
                                                          Enter Your Detais:
    struct add{
                                                                Roll No.
                                                          Name
         int door no;
                                                          Niranjan 26
                                                          Class Room No. Street Place
         char street[20];
                                                          306
                                                                      Libali BakhunchheTole
 6
         char place[30];
                                                          Your details are ...
    };
                                                          Name : Niranjan
    struct student{
                                                          Roll No. is 26
                                                          Class Room No. is 306
         char name[30];
                                                          Area name is BakhunchheTole
        int roll no;
10
                                                          Street name is Libali_
        struct add address;
11
12 };
13
    int main(){
14
         struct student std;
15
         printf("Enter Your Detais:\n");
16
         printf("Name\tRoll No.\n");
17
         scanf("%s%d",std.name,&std.roll no);
         printf("Class Room No.\tStreet\tPlace\n");
18
19
         scanf("%d%s%s",&std.address.door no,std.address.street,std.address.place);
20
         printf("\nYour details are ...\n");
21
         printf("Name : %s",std.name);
22
         printf("\nRoll No. is %d",std.roll no);
23
         printf("\nClass Room No. is %d",std.address.door no);
24
         printf("\nArea name is %s",std.address.place);
25
         printf("\nStreet name is %s",std.address.street);
26
         getch();
27
         return 0;
28
```

Array of Structures

To declare a 100-element array of structures of type books:

```
struct book b[100];
```

To print the price of structure 3, write printf("%f",b[2].price);

```
Er. Shiva K.
2019-01-29
```

```
∢▶
     C8 10.C
   #include<stdio.h>
 2 #include<conio.h>
                                               C:\Users\ErSKS\Google ...
                                                                                 X
    struct marks{
                                              English Math
                                                            Computer
                                                                           Total
      int e;
                                                     70
                                                            91
                                                                           211
    int m;
                                                     55
                                                                           202
                                                            72
                                                     41
                                                            72
                                                                           167
   int c:
      int total;
    int main(){
      int i:
10
      static struct marks s[3]={{50,70,91,0},{75,55,72,0},{54,41,72,0}};
11
      printf("English\tMath\tComputer\tTotal");
12
13
      for(i=0;i<3;i++){</pre>
          s[i].total=s[i].e + s[i].m + s[i].c;
14
          printf("\n%-7d\t%-4d\t%-8d\t%-5d", s[i].e, s[i].m, s[i].c, s[i].total);
15
16
17
      getch();
      return 0;
18
19
```

Task

- WAP to use nested structure to hold information of student's name, address, roll_no & date of birth within another structure. Ask user to enter information & display respective information.
- 2. WAP using nested structure to read info. of 3 students. Use concept of array of structure to hold their data. Display their info from main function.
- 3. WAP to read name, address, roll, year, month & day of 3 students using structure. And display that information using userdefined function.

Example#11: Storing book information using structure

```
C8_11.C
                             C:\Users\ErSKS\Google Drive (c.khwopa@gmail.com)\C_Codes\Ch8\C8_11.exe
    #include<stdio.h>

    Enter Name, Price, and Pages: C 650 650

                            2. Enter Name, Price, and Pages: Math-I 452 350
   #include<conio.h>
                            3. Enter Name, Price, and Pages: Drawing-I 263 300
    struct book{
                            4. Enter Name, Price, and Pages: Applied 485 600
      char name[20];
                            Enter Name, Price, and Pages: BasicElectrical 378 450
     int price;
                            Book Name
                                          Price
                                                 Pages
      int pages;
                                          650
                                                 650
                             Math-I
                                          452
                                                 350
    }b[5];
                            Drawing-I
                                          263
                                                 300
                            Applied
                                          485
                                                 600
    int main(){
                            BasicElectrical 378
                                                 450_
       int i;
10
      for(i=0;i<5;i++){
11
         printf("%d. Enter Name, Price, and Pages: ",(i+1));
12
13
         scanf("%s%d%d", &b[i].name, &b[i].price, &b[i].pages);
14
      printf("\n%-15s\tPrice\tPages", "Book Name");
15
      for(i=0;i<5;i++){
16
17
         printf("\n%-15s\t%d\t%d", b[i].name, b[i].price, b[i].pages);
18
      getch();
19
20
       return 0:
21
```

Initializing Array of Structure

```
C8 12.C
 1 #include<stdio.h>
                                               C:\Users\...
                                                                       ×
    #include<conio.h>
                                              Salary of Ram is 2000/day.
    struct employee{
                                              Salary of Hari is 4100/day.
      char name[20];
                                              Salary of Shyam is 2500/day.
      char code[5];
                                              Salary of Vicky is 5000/day.
      int salary;
                                              Salary of Tanuj is 7000/day.
    \} emp [5] = {
      {"Ram","E01", 2000},
    {"Hari","E02", 4100},
    --{"Shyam","E03", 2500},
10
    --{"Vicky","E04", 5000},
11
    {"Tanuj","E05", 7000},
12
13
    };
14
15
    int main(){
16
      int i:
17
      for(i=0;i<5;i++){
18
        printf("Salary of %s is %d/day.\n",emp[i].name,emp[i].salary);
19
20
      getch();
21
      return 0;
22
```

Function & Structure

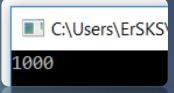
- ▶ Passing structure members to a function
- ▶ Passing an entire structure to a function
- Passing structure pointer to a function

Passing structure members to a function

```
C8_13.C
                ×
   #include<stdio.h>
   #include<conio.h>
    struct{
 4
        char g;
        int y;
        float z;
        char s[10];
 8
   }mike;
                                Gender of Mike: M_
    void func(char);
10
    int main(){
      mike.g='M';
12
     func(mike.g);
13
14
     getch();
15
      return 0;
16
   }
17
    void func(char a){
18
      printf("Gender of Mike: %c", a);
19
20
```

Passing an entire structure to a function

```
\blacktriangleleft
     C8_14.C
                  ×
    #include<stdio.h>
    #include<conio.h>
    struct test{
         int a, b;
         char ch;
    };
    void function(struct test);
 8
    int main(){
         struct test arg;
10
         arg.a=1000;
11
         function(arg);
12
13
         getch();
14
         return 0;
15
16
17
    void function(struct test param) {
         printf("%d",param.a);
18
19
```



Task

► WAP to set elements of "test" structure to 100, 1000, 'A' and display all members by passing structure to a function.

Passing structure pointer to a function

```
\blacktriangleleft \blacktriangleright
     C8_15.C
    #include<stdio.h>
                                  C:\Users\ErSKS\Google ...
                                                                     ×
    #include<conio.h>
                                 Before Function Call, Gender: M
    struct{
                                  After Function Call, Gender: F
 4
         char g;
         int y;
                                 Gender Modified! Printing from main():
     }bishnu;
                                  Gender=F_
     void func(char *gen);
 8
 9
    int main(){
         bishnu.g='M';
10
         printf("Before Function Call, Gender: %c\n", bishnu.g);
11
         func(&bishnu.g);
12
13
         printf("\nGender Modified! Printing from main():");
         printf("\nGender=%c",bishnu.g);
14
15
         getch();
16
         return 0;
17
18
     void func(char *gen){
19
         *gen='F';
20
21
         printf("After Function Call, Gender: %c\n", *gen);
22
```

Typedef Structure

C language provides the opportunity to define new data_type equivalent to the existing system using the typedef statement. The declaration would be

```
typedef struct date{
  int dd;
  int mm;
  int yyyy;
}dob;
dob emp_date_of_birth;
```

The above declaration variable emp_date_of_birth has now become the type of structure date. C8_15_2.C

```
C:\Users\ErSKS\Google Drive ...
                                             X
Input increment values ...
Price increment and quantity increment: 5 3
Updated values of item:
Name:
          XYZ
Price:
          30
Quantity: 15
Total Amount = 450.00
```

Structure & Pointer

```
char *roll no;
\blacktriangleleft \blacktriangleright
     C8_16.C
                                              int salary;
                  ×
    #include<stdio.h>
                                             }*emp1;
    #include<conio.h>
    int main(){
                                                         C:\Users\...
                                                                                    X
         struct book{
                                                        Let us C
                                                                                 101
              char name[25];
 5
                                                        Let us C
                                                                        YK
                                                                                 101
              char author[25];
 6
              int call no;
 8
         };
         struct book b1={"Let us C","YK",101};
 9
         struct book *ptr;
10
         ptr=&b1;
11
         printf("%s\t%s\t%d\n",b1.name,b1.author,b1.call_no);
12
         printf("%s\t%s\t%d\n",ptr->name, ptr->author, ptr->call_no);
13
14
         getch();
         return 0;
16
```

C language allows declaring

following manner:

struct employee{

char *name;

structure just like pointer to other ordinary

variables. The declaration can be done in the

pointer

```
C:\Users\ErSKS\Google Drive (c.khwopa@gmail....
                                                                                                    \times
                                                        Number of Student's grades to be computed?1
C8_17_v2.C A2 28.c
    #include<stdio.h>
                                                        Student[1]'s information:
                                                        Name: Niranjan
 2 ☐ int main(){
                                                        CRN: KCE074BCT025
3白
       struct Student{
                                                        Average Score: 88
                                                        Niranjan
                                                                    KCE074BCT025A
                                                                                 88.00
          char name[25], crn[12], grade;
 5
          float average;
                                                        NAME
                                                                       REG NUMBER
                                                                                       AVERAGE GRADE
 6
        }s[50];
                                                        Niranjan
                                                                       KCE074BCT025A
                                                                                       88.00 A
        int i, n;
8
        printf("Number of Student's grades to be
                                                        Process exited after 31 seconds with return value 0
9
        scanf("%d", &n);
                                                        Press any key to continue \dots
10 🖨
        for(i=0; i<n; i++){
11
         printf("\nStudent[%d]'s information:\n", i+1);
         printf("Name: "); scanf("%s", s[i].name); fflush(stdin);
12
13
         printf("CRN: "); scanf("%s", s[i].crn);
         printf("Average Score: "); scanf("%f", &s[i].average);
14
15
16
         if(s[i].average<30.0){ s[i].grade = 'D';}</pre>
         else if(s[i].average<50.0){ s[i].grade = 'C';}
17
         else if(s[i].average<70.0){ s[i].grade = 'B';}</pre>
18
19
         else{ s[i].grade = 'A';}
20
21
         printf("%s\t%s%8.2f\n", s[i].name, s[i].crn, s[i].average);
22
23
      /*Displaying Student Records*/
24
       printf("\n%-20s%-12s\t%-7s\t%-6s\n","NAME","REG_NUMBER","AVERAGE","GRADE");
      for(i=0; i<n; i++){
25 白
26
         printf("%-20s%-12s\t%-7.2f\t%c\n", s[i].name, s[i].crn, s[i].average, s[i].grade);
          return 0;
27
```

```
#include<stdio.h>
#include<conio.h>
int main(){
 struct s record{
     char name[25], crn[12], grade;
    float average;
   \s[50], *ptr; /* ptr is a pointer of type structure s record */
   int i, n;
  printf("Number of ss grades to be computed?");
   scanf("%d", &n);
   for(i=0; i<n; i++){</pre>
    printf("\nStudent[%d]'s information:\n", i+1);
    printf("Name: "); scanf("%s", s[i].name);
    printf("CRN: "); scanf("%s", s[i].crn);
    printf("Average Score: "); scanf("%f", &s[i].average);
    printf("%$\t%$\8.2f\n", $\[i].name, $\[i].crn, $\[i].average);
 ptr = s; /* pointer 'ptr' points to s[0] */
  for(ptr = s; ptr<s+n; ptr++){</pre>
   if(ptr->average<30.0){</pre>
    ptr->grade = 'D';
   }else if(ptr->average<50.0){</pre>
     ptr->grade = 'C';
   }else if(ptr->average<70.0){</pre>
     ptr->grade = 'B';
   }else{
     ptr->grade = 'A';
 printf("\n%-20sREG NUMBER \tAVERAGE\tGRADE\n","NAME");
 for(ptr=s;ptr<s+n;ptr++){</pre>
    printf("%-20s%-12s\t", ptr->name, ptr->crn);
    printf("%-7.2f\t%c\n", ptr->average, ptr->grade);
 getch(); return 0;
```

C8_17.C

10

12

17

```
C:\Users\ErSKS\Google Drive (c.khwopa@gm...
                                                Number of students grades to be computed?3
Student[1]'s information:
Name: Niranjan
CRN: KCE074BCT025
Average Score: 88
Niranjan
                KCE074BCT025
                               88.00
Student[2]'s information:
Name: Sushil
CRN: KCE074BCT048
Average Score: 86.92
Sushil KCE074BCT048
                       86.92
Student[3]'s information:
Name: Nabin
CRN: KCE074BCT023
Average Score: 80.62
Nabin KCE074BCT023
                       80.62
NAME
                    REG NUMBER
                                        AVERAGE GRADE
Niranian
                    KCE074BCT025
                                        88.00
                                                Α
Sushil
                    KCE074BCT048
                                        86.92
Nabin
                    KCE074BCT023
                                        80.62
                                                Α
```

Passing Structure to Function using Reference

```
C8_18.C
 1 #include<stdio.h>
                                                         Х
                                    C:\Users\ErSKS\...
 2 #include<conio.h>
                                    Let us C YK 101_
 3 struct book{
       char name[25];
       char author[25];
       int call_no;
 7 };
 8 void display(struct book *);
  int main(){
       struct book b1={"Let us C", "YK", 101};
11
       display(&b1);
12
       getch();
13
14
       return 0;
15 }
16
   void display(struct book *p){
17
        printf("%s %s %d", p->name, p->author, p->call_no);
18
19 }
```

Function, Structure & Pointer

```
File
          Edit
                         Run
                              Compile
                                                         Options
                                                                    Window
                 Search
                                        Debug
                                               Project
                                                                             Help
                                    C8 Z0 ~1.C
                                                                            :1=[#]=
#include<stdio.h>
#include<comio.h>
void display(struct Nepal *b);
struct Nepal{
        char PM[30];
        char capitalCity[20];
        int states;
int main(){
        struct Nepal b={"KP Oli", "Kathmandu", 7};
        clrscr();
        display(&b);
        getch();
        return 0:
void display(struct Nepal *b){
        printf("\n\s \x \xd",b-\PM,b-\capitalCity, b-\states);
       11:18 ===
                                             Alt-F9 Compile
                                                                       F10 Menu
         Alt-F8 Next Msg
                           Alt-F7 Prev Msg
                                                              F9 Make
F1 Help
 🚻 DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Progra...
                                                                             X
KP Oli Kathmandu 7
```

```
C8 19.c
 1 #include<stdio.h>
 2 #include<conio.h>
 3 struct employee{
       char name[20];
       float salary, allowance;
   }e;
 7 /*ep is a pointer of type struct employee*/
8 float grossCalc(struct employee *ep){
       /*adds up the employee's salary and allowance,
       and returns the result as gross salary*/
10
       return (ep->salary + ep->allowance);
11
12 }
13 int main(){
14
       float gross;
15
       printf("Enter Employee's Name, Salary & Allowance: ");
       scanf("%s%f%f", e.name, &e.salary, &e.allowance);
16
       fflush(stdin);
17
18
       gross = grossCalc(&e);
       printf("%s's gross salary is Rs. %.2f", e.name, gross);
19
20
       getch(); return 0;
21 }
                             C:\Users\ErSKS\Google Drive (c.khwopa@gmail.com)\...
```

Enter Employee's Name, Salary & Allowance: Abhaya 42000 12000 Abhaya's gross salary is Rs. 54000.00_



Thank You!

Er. Shiva K. Shrestha

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