Assignment – 21

Structure

1. Define a structure Employee with member variables id, name, salary ?

Solve –

#include<stdio.h>

struct Employee

{

int id;

char name[10];

float salary;

};

void display( struct Employee b ){

printf("\n%d %s %f",b.id,b.name,b.salary);

}

struct Employee input(){

struct Employee b;

printf("Enter the employee id , name , and salary\n");

scanf("%d",&b.id);

fflush(stdin);

fgets(b.name,10, stdin);

b.name[strlen(b.name)-1] = '\0';

scanf("%f",&b.salary);

return b;

}

int main(){

struct Employee b1 = { 1, "sagar", 2000};

display(b1);

return 0;

}

Output –

1 sagar 2000.000000

2. Write a function to take input employee data from the user. [ Refer structure from

question 1 ] ?

solve –

#include<stdio.h>

struct Employee

{

int id;

char name[10];

float salary;

};

void display( struct Employee b ){

printf("\n%d %s %f",b.id,b.name,b.salary);

}

struct Employee input(){

struct Employee b;

printf("Enter the employee id , name , and salary\n");

scanf("%d",&b.id);

fflush(stdin);

fgets(b.name,10, stdin);

b.name[strlen(b.name)-1] = '\0';

scanf("%f",&b.salary);

return b;

}

int main(){

struct Employee b1;

b1 = input();

display(b1);

return 0;

}

Output -

Enter the employee id , name , and salary

1

sagar

2000

1 sagar 2000.000000

3. Write a function to display employee data. [ Refer structure from question 1 ] ?

Solve –

#include<stdio.h>

struct Employee

{

int id;

char name[10];

float salary;

};

int main(){

struct Employee b;

printf("Enter the name ");

gets(b.name);

printf("Enter the id ");

scanf("%d\n",&b.id);

printf("Enter the salary ");

scanf("%d\n",&b.salary);

printf("name = %s id = %d salary = %d",b.id,b.name, b.salary);

return 0;

}

Output-

Enter the name sagar

Enter the id 2

3

Enter the salary 20000

name = sagar , id , = 2 ,salary = 3.000000

4. Write a function to find the highest salary employee from a given array of 10

employees. [ Refer structure from question 1] ?

solve -

#include<stdio.h>

struct Employee

{

int id;

char name[10];

float salary;

};

int main(){

struct Employee b[5];

int i;

int max =-99999.0;

for( i=0; i<3; i++){

printf("enter the name");

fflush(stdin);

fgets(b[i].name,10,stdin);

printf("enter the id");

scanf("%d\n",&b[i].id);

printf("enter the salary");

scanf("%f\n",&b[i].salary);

}

for( i=0; i<3; i++){

if(max<b[i].salary){

max=b[i].salary;

}

}

printf(" %d salaries man is %s\n",max,b[i].name);

return 0;

}

Output -

5. Write a function to sort employees according to their salaries [ refer structure from

question 1] ?  
solve –

#include<stdio.h>

struct Employee

{

int id;

char name[10];

int salary;

};

int main(){

struct Employee b[5],temp;

int i,j;

for( i=0; i<3; i++){

printf("enter the name");

fflush(stdin);

fgets(b[i].name,10,stdin);

printf("enter the id");

scanf("%d\n",&b[i].id);

printf("enter the salary");

scanf("%d\n",&b[i].salary);

}

for( i=0; i<3; i++)

{

for( j=1; j<=3; j++)

{

if(strcmp(b[i].name,b[j].name) >0 ){

temp = b[i];

b[i]= b[j];

b[j]= temp;

}

}

}

for( i=0; i<3; i++)

{

printf("name = %s, id = %d , salary = %d\n",b[i].name,b[i].id,b[i].salary);

}

return 0;

}

Output –

7. Write a program to calculate the difference between two time periods ?

Solve -