//DAY-8

/\*//1. Write a program that declares and intializes a strucutre variable.

print the values of that structure variable

Consider :: the use case of a book stall and following details

book\_id, book\_title, author, price

#include<stdio.h>

#include<stdlib.h>

struct book

{

int book\_id;

char book\_name[30];

char author[30];

int price;

};

void main()

{

struct book b={1,"The Alchemist","Paulo Coelho",400};

int i;

printf("book\_id \tbook\_name\tauthor\tbook\_price\n");

printf("%d\t%s\t%s\t%d\n",b.book\_id,b.book\_name,b.author,b.price);

}

2. Write a program to do the following (Use array of structures)

a. Create a book database (title, author, rice, no\_pages)

b. Update the book price based on the title.

c. Display appropriate message if updation fails.

#include <stdio.h>

#include<stdlib.h>

#include<string.h>

int i,n;

struct book

{

char title[10];

char author[10];

float price;

int no\_pages;

};

void insert(struct book a[])

{

printf("enter no of books:");

scanf("%d",&n);

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

{

printf("Enter title,author,price,pages of book %d:",i+1);

scanf("%s%s%f%d",a[i].title,a[i].author,&a[i].price,&a[i].no\_pages);

}

}

void display(struct book a[])

{

printf("title\tautor\tprice\t\tpages\n");

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

printf("%s\t%s\t%f\t%d\n",a[i].title,a[i].author,a[i].price,a[i].no\_pages);

}

void update(struct book a[])

{

char title[20];

int z,flag=0,p;

printf("Enter title:");

scanf("%s",title);

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

{

z=strcmp(title,a[i].title);

if(z==0)

{

printf("Enter new price:");

scanf("%d",&p);

a[i].price=p;

return;

}

}

printf("Book not found");

}

void main()

{

struct book a[10];

int choice;

for(;;)

{

printf("\n1.Insert books\t2.Update price\t3.Display database\t4.Exit\n");

scanf("%d",&choice);

switch(choice)

{

case 1:insert(a);break;

case 2:update(a);break;

case 3:display(a);break;

case 4:exit(0);

}

}

}

3.Complete the following code segment with appropriate C statements\*/

#include <stdio.h>

#include<stdlib.h>

#include<string.h>

int i,n;

struct book

{

char title[10];

char author[10];

float price;

int no\_pages;

};

void insert(struct book a[])

{

printf("enter no of books:");

scanf("%d",&n);

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

{

printf("Enter title,author,price,pages of book %d:",i+1);

scanf("%s%s%f%d",a[i].title,a[i].author,&a[i].price,&a[i].no\_pages);

}

}

void display(struct book a[])

{

printf("title\tautor\tprice\t\tpages\n");

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

printf("%s\t%s\t%f\t%d\n",a[i].title,a[i].author,a[i].price,a[i].no\_pages);

}

void update(struct book a[])

{

char title[20];

int z,flag=0,p;

printf("Enter title:");

scanf("%s",title);

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

{

z=strcmp(title,a[i].title);

if(z==0)

{

printf("Enter new price:");

scanf("%d",&p);

a[i].price=p;

return;

}

}

printf("Book not found");

}

void main()

{

struct book a[10];

int choice;

for(;;)

{

printf("\n1.Insert books\t2.Update price\t3.Display database\t4.Exit\n");

scanf("%d",&choice);

switch(choice)

{

case 1:insert(a);break;

case 2:update(a);break;

case 3:display(a);break;

case 4:exit(0);

}

}

}