

Introduction to C Programming
Assessable Exercise
(Week 7)

Task 1 - Structures Exercise (dvdcat.c)

Scenario

You have decided to catalogue your DVD collection before it grows beyond control. Thinking about the best way to do this you have decided to use your newly found C programming skills to create your catalogue.

The Specification

Your program should allow you to:

- a) enter new DVD titles, Certificate Rating, date of purchase, price and a reference number
- b) display all DVDs entered
- c) search for a DVD title and display the results

Next week you will learn about file handling and then be able to add two more functions to your database which are:

- d) save the catalogue
- e) retrieve the catalogue to add to it.

Implementation

To implement this program you should create a menu, this can be done in the 'main' function and then functions to meet the requirements of a, b, c, d and e.

A global structure should be created to hold the DVD information and it is suggested that you make this an array of 25.

Suggested structure format:

```
int DVD_Ref;  
char Title[50];  
char Cert[3];  
char DoP[8]; /*date is in dd/mm/yy format*/  
float Price;
```

In order to get you started a template is supplied on the next page.

This exercise will be your formal assessment for this course.

```

/* Program Information

Name of source file:      dvdcat.c
Name of author:
Date written:
Program Description:

Libraries      */
#include <stdio.h>
#include <conio.h>
#include <ctype.h>
#include <string.h>
#include <dos.h>

/* Definitions  */

/* Global Variables  */
/*create a structure here for the DVD record and
   make an array of that structure to hold 25 records */

/* Function Prototypes  */
void EnterData(void);
void DisplayAll(void);
void Search(void);
void SaveData(void);
void LoadData(void);
/* ===== main block =====*/
void main(void)
{
    /* the code for your menu goes here*/
    /*start with code to display the menu on the screen*/
    /*then use switch / case to select a function call*/
    /*loop back to beginning of program*/

}
/* ===== Function Blocks ===== */
void EnterData(void)
{
    /*this code will prove that you function works and should be
       created for each of the functions after you have created the menu */
    clrscr();
    printf("\nthis function will allow the user to enter data");
    printf("\n\npress any key to return to menu");
    getch();

}
/* all other functions follow here  */

```