INTRODUCTION TO COMPUTERS AND PROGRAMMING

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BATCH A8

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**Personal Diary**

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*INTRODUCTION*

**PURPOSE-**

As per the topic, the software is a personal diary.

It stores the daily record of user in an arranged way. The user can add any number of records within different dates. User can view any record of any time of any day that he added previously. User can also edit any part of record. User can also delete any record he doesn’t need.

**TOPICS USED-**

1. Functions
2. Graphics
3. Arrays
4. Structures
5. Strings

*ALGORITHM*

1.Start

2. Declare

**main( ) function:**

Step 1:start.

Step 2:declare variable choice as integer and check as char.

Step 3:personalize the main menu.

Step 4:create a while loop.

Step 4.1:display menu item and ask to enter choice

Step 4.2:get the value of the choice

Step 4.3:check the value of choice by using switch case and perform the task as

Step 4.3.1:if ch is 1 then call function add( )

ch is 2 then call function view( )

ch is 3 then call function edit( )

ch is 4 then call function del().

Step 5:stop

**add( ) function**

Step 1:start.

Step 2: declare file pointer and variables test as char type .

Step 3:open the file in append and write mode

Step 4:if file cannot open then exit

Step 5 else enter the records

Step 6: get the name, place, time and the description.

Step 7:write to the file.

Step 8: if want to escape press esc key and goto main menu

Step8.1 else enter other records

Step 9:close that file.

Step 9: stop.

**view( ) function**

Step 1:start.

Step 2:declare file pointer.

Step 3:open the file in read mode.

Step 3.1:if the file doesnot exist, then exit

Step 4: display records

Step 5: for exit press esc & goto main menu.

Step 7:close that file.

Step 8: stop.

**del( ) function**

Step 1:start.

Step 2: declare file pointer.

Step 3:ask user to enter choice(1or2).

Step 3.1:if choice is 1,delete the whole record of the entered date.

Step 3.2:if choice is 2,delete the specific record.

Step 3.2.1:ask the date.

Step 3.2.2: open file of that date if it exists.

Step 3.2.3 otherwise goto step 3.3.

Step 3.2.4:ask the time from user.

Step 3.2.5: read file of that time if it exists delete record of that time otherwise show that entered time is invalid.

Step 3.3: if he wants to delete another record goto step 3 otherwise gotomain menu.

Step 5: close that file.

Step 6:stop.

**edit() FUNCTION:**

Step1: clear the screen and declare a file pointer.

Step2: print the statement “WELCOME TO THE EDITING MENU”,

Step3: if the return value is not equal to zero return back to main,

Step4: otherwise, in the do loop, read the filename and time,

Step5: open the filename in read mode, if file pointer returns zero display error message and return back to main,

Step6: otherwise, read the file by size of structure and store in it,

Step7: every time it stores, compare the structure’s time variable with time variable,

Step10: if not equal read another structure form the file,

Step11: otherwise, display the structure as old record and ask for the value of num,

Step10.1: If num=1, read the value of time of structure,

Step10.2: If num=2, read the value of name of structure,

Step10.3: If num=3, read the value of place of structure,

Step10.4: If num=5, read the value of note of structure,

Step10.5: If num=6, read the whole structure,

Step10.6: If num=7, return back to main,

Step10.7: If num= other then 1 to 7, display error message,

Step12: rewind the pointer to the top of that record and write the fresh structure,

Step13: assign choice =5, increase the value of count by one,

Step14: if no similar structure’s time and time are found go out of the loop without assigning choice =5,

Step15: if choice =5 then read and display the new record,

Step16: read the value of choice,

Step17: if choice= ‘y’ or ‘Y’ then goto step5, otherwise goto step 17,

Step18: display the value of count,

Step19: return back to main,

Step20: end

*CONCLUSION*

Our main aim in this program is to prepare a personal diary record.The class modules and problems through done on the computers itself were much theoretical than practical because they were unable to teach us there application in our daily life.

The mini project on the other hand not only taught us practical use of program but also helped us in gaining skills like co-ordination, leadership, management of time, planning, foresights, etc. Above all it taught us that we could do something useful with c-programming. It gave taste of being a programmer which will very useful in our future.

Thus we can predict that we succeeded on our aim.The problems we faced make us more confident in C language.