

**PROBLEM SOLVING WITH PROGRAMMING [RA20]**

(PSP)

**COURSE PROJECT**

(2021-22)

Developed By:

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***PROBLEM STATEMENT:***

Develop a C Application to store details of the database On online ticket booking system(Movie name,TheatreName,Timings of the show,No.of seats,Total cost). Allocate memory for the program by using Dynamic memory management functions.

Provide the functionality for below mentioned:

1. Read movie names dynamically {Billa, Darling, Mirchi, Bahubali, Chatrapathi}.
2. Read theatre names:{Asian mall, Sridevi, Vijayatalkies, s2}.
3. Read no. of shows {Morning show, Matinee, Evening show, Night show}
4. Sort (Ascending/Descending) ‘n’ online ticket booking system according to:

➢Movie name

➢Theatre name

➢ Timings

of the show

➢No.of seats

➢ Total cost & No. of seats available

1. Read no of seats
2. Ticket cost
3. No. of seats available

***MODULES:***

In this application are assigned to memory dynamically. In order to repeat the loop control statement{for loop} is used with condition. In the control statement if condition is used in order to each and every condition. This Application asks the person who runs the program first From Which movie he/she want to select. After that name of the theatre and np. Of tickets want to book.

In this application four modules are used.

1.Read/Input

In this module the application asks the person who runs the program to enter name of the movie he want to select. To enter movie for loop is used.

2.Sorting

In this module sorting of data is done according to the chosen wise.

In this module there is a sub menu in main menu which asks to select the sorting wise by using DMA. The sorting sub menu will be like press1 to sort by Billa .press 2 sorting by darling .press 3 to sort by mirchi. Press 4 to sort by Bahubali. Press 5 to sort by chatrapathi.

3.Print

In this module after selecting the no of seats then it will be displayed on the screen by excluding previous seats. In this module printf function anf for loop is used.

KNOWLEDGE REQUIRED TO DEVELOP THIS APPLICATION

🡪Control Statements(if)

🡪Loop Statements( for)

🡪 DMA (Malloc/Calloc/Realloc)

**SOURCE CODE [HEADER FILE]:**

#include<stdio.h>

#include<conio.h>

void movie();

void theatre();

void timings();

void noofseats();

void main(){

movie();

}

void movie(){

int ch,i,\*p1;

printf("\n enter no.of movies running at present:");

scanf("%d",&ch);

p1=(int\*)malloc(ch\*sizeof(int));

printf("\t\t 1.Alavaikuntapuramulo\n2.sarileru nikevaru\n3.Mahanati\n4.Happy days\n5.sainikudu");

printf("\n enter your choice:");

for(i=0;i<ch-4;i++){

scanf("%d",p1+i);

if(\*(p1+i)==1){

printf("\n Alavaikuntapuramulo");

}

if(\*(p1+i)==2){

printf("\n sarileru nikevaru");

}

if(\*(p1+i)==3){

printf("\n mahanati");

}

if(\*(p1+i)==4){

printf("\n happy days");

}

if(\*(p1+i)==5){

printf("\n sainikudu");

}

}

theatre();

}

void theatre(){

int n,i,\*p2;

printf("\n enter no.of theatre name:");

scanf("%d",&n);

printf("1.asian mall\n2.sridevi\n3.vijayatalkies\n4.s2");

printf("\n enter your choice:");

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

scanf("%d",p2+i);

if(\*(p2+i)==1){

printf("\n Asian mall");

}

if(\*(p2+i)==2){

printf("\n sridevi");

}

if(\*(p2+i)==3){

printf("\n vijayatalkies");

}

if(\*(p2+i)==4){

printf("\n s2");

}

}

timings();

}

void timings()

{

int y,\*p3,i;

printf("\n enter no.of shows in the day :");

scanf("%d",&y);

p3=(int\*)malloc(y\*sizeof(int));

printf(" 1.morning show\n2.Matinee\n3.Evening show\n4.Night show");

printf("\n enter your choice:");

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

scanf("%d",p3+i);

if(\*(p3+i)==1){

printf("morning show(9:30am to 12:30pm)");

}

else if(\*(p3+i)==2){

printf("matinee show(9:30am to 12:30pm)");

}

else if(\*(p3+i)==3){

printf("evening show(9:30am to 12:30pm)");

}

else if(\*(p3+i)==4){

printf("Night show(9:30am to 12:30pm)");

}

}

noofseats();

}

void noofseats(){

int z,b,n;

printf("\n enter no.of seats:");

scanf("%d",&z);

b=200\*z;

n=100-z;

printf("\n total cost=%d",b);

printf("\nNo.of seats available :%d",n);

}

**OUTPUT:**

RESULT 1:

enter no.of movies running at present:5

1.Alavaikuntapuramulo

2.sarileru nikevaru

3.Mahanati

4.Happy days

5.sainikudu

enter your choice:3

mahanati

enter no.of theatre name:3

1.asian mall

2.sridevi

3.vijayatalkies

4.s2

enter your choice:

enter no.of shows in the day :4

1.morning show

2.Matinee

3.Evening show

4.Night show

enter your choice:1

morning show(9:30am to 12:30pm)

enter no.of seats:3

total cost=600

No.of seats available :97

RESULT 2:

enter no.of movies running at present:5

1.Alavaikuntapuramulo

2.sarileru nikevaru

3.Mahanati

4.Happy days

5.sainikudu

enter your choice:1

Alavaikuntapuramulo

enter no.of theatre name:4

1.asian mall

2.sridevi

3.vijayatalkies

4.s2

enter your choice:1

Asian mall

enter no.of shows in the day :1

1.morning show

2.Matinee

3.Evening show

4.Night show

enter your choice:

enter no.of seats:5

total cost=1000

No.of seats available :95

RESULT 3:

enter no.of movies running at present:5

1.Alavaikuntapuramulo

2.sarileru nikevaru

3.Mahanati

4.Happy days

5.sainikudu

enter your choice:2

sarileru nikevaru

enter no.of theatre name:4

1.asian mall

2.sridevi

3.vijayatalkies

4.s2

enter your choice:2

sridevi

enter no.of shows in the day :4

1.morning show

2.Matinee

3.Evening show

4.Night show

enter your choice:2

matinee show(9:30am to 12:30pm)

enter no.of seats:6

total cost=1200

No.of seats available :94

RESULT 4:

enter no.of movies running at present:5

1.Alavaikuntapuramulo

2.sarileru nikevaru

3.Mahanati

4.Happy days

5.sainikudu

enter your choice:3

mahanati

enter no.of theatre name:4

1.asian mall

2.sridevi

3.vijayatalkies

4.s2

enter your choice:3

vijayatalkies

enter no.of shows in the day :4

1.morning show

2.Matinee

3.Evening show

4.Night show

enter your choice:3

evening show(9:30am to 12:30pm)

enter no.of seats:9

total cost=1800

No.of seats available :91

RESULT 5:

enter no.of movies running at present:5

1.Alavaikuntapuramulo

2.sarileru nikevaru

3.Mahanati

4.Happy days

5.sainikudu

enter your choice:5

sainikudu

enter no.of theatre name:4

1.asian mall

2.sridevi

3.vijayatalkies

4.s2

enter your choice:4

s2

enter no.of shows in the day :4

1.morning show

2.Matinee

3.Evening show

4.Night show

enter your choice:4

Night show(9:30am to 12:30pm)

enter no.of seats:6

total cost=1200

No.of seats available :94

**..…THANKYOU…..**