

Program:1

Date:

## ROOTS OF QUADRATIC EQUATIONS

### AIM

Write a program to find roots of quadratic equations

### PROGRAM

```
#include<stdio.h>

#include<math.h>

void main()

{int a,b,c,d;

float r1,r2;

printf("\nenter the values\t ");

scanf("%d%d%d",&a,&b,&c);

if(a==0)

{

printf("\nvalue of a should not be zero\t");}

else

{d=b*b-4*a*c;

if(d>0)

{r1=(-b+sqrt(d))/(2*a);

r2=(-b-sqrt(d))/(2*a);

printf("\nroots are real and unequal");
```

```
printf("\t root1=%f\troot2=%f",r1,r2);  
  
}  
  
else if(d==0)  
{r1=-b/(2*a);  
  
printf("\nroots are real and equal");  
  
printf("\t root=%f",r1);  
  
}  
  
else  
  
printf("roots are complex and imagenary");  
  
}  
  
}
```

## **RESULT**

The program to find the roots of a quadratic equation is done and output obtained successfully.

## OUTPUT

```
enter the values      6 9 1
roots are real and unequal      root1=-0.120847      root2=-1.379153
```

**Program: 2****Date:****FIBONACCI SERIES USING RECURSION****AIM**

Write a program to print Fibonacci series of a given limit using recursion

**PROGRAM**

```
#include<stdio.h>

int f(int);

int main()

{ int n, m=0, i;

printf("enter the limit:");

scanf("%d",&n);

printf("Fibonacci series are:");

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

{ Printf("%d",fib(m));

m++; }

Return 0; } int fib(int n)

{ if (n==0||n==1)

{ return n;

} else { return (fib(n -1) +( n -2)) }

}
```

**RESULT**

Obtained the output of the program to find the Fibonacci series of the given limit using recursion

## OUTPUT

```
enter the limit:5
Fibonacci series are:011247

...Program finished with exit code 0
Press ENTER to exit console.
```

Program: 3

Date:

## **SUM OF DIGITS**

### **AIM**

write a program to find sum of digits of a number using while loop

### **PROGRAM:**

```
#include<stdio.h>

void main()

{

int num, r, s;

printf("enter a number:");

scanf("%d",&num);

while(num>10)

{

S=0;While(num>0)

{ r=num% 10;

s=s+r;

num=num/10;

}num=s;

}

Printf("sum=%d",s);}
```

### **RESULT**

Obtained the program to find sum of a digit of a number using while loop

## OUTPUT



The screenshot shows a terminal window with a title bar containing standard window controls and the title 'input'. The terminal has a black background with white text. The output of the program is as follows:

```
enter a number:54  
sum=9  
  
...Program finished with exit code 0  
Press ENTER to exit console.
```

Program: 4

Date: 9/10/19

## **ARMSTRONG OR NOT**

### **AIM**

write a program to check whether the given number is an Armstrong or not

### **PROGRAM:**

```
#include<stdio.h>

Void main()

{

int num, r, sum, temp;

sum = 0;

printf("enter the number:");

scanf("%d",&num);

temp = num;

while(num>0)

{

r = num% 10;

sum = sum+(r*r*r);

num = num/10;

}

If(temp==sum)

{

Printf("the number is  armstrong");
```



```
}  
Else  
{  
Printf("the number is not armstrong");  
}  
}
```

## **RESULT**

Obtained the program to find the given number is an Armstrong or not.

## OUTPUT:



A terminal window titled 'input' with a dark background. It shows the program's output for the input 153. The text is as follows:

```
enter the number:153
the number is armstrong

...Program finished with exit code 0
Press ENTER to exit console.
```



A terminal window titled 'input' with a dark background. It shows the program's output for the input 152. The text is as follows:

```
enter the number:152
the number is not armstrong

...Program finished with exit code 0
Press ENTER to exit console.
```

Program: 5

Date:

## **PRIME OR NOT**

### **AIM**

write a program to check whether the given number is prime or not

### **PROGRAM:**

```
#include<stdio.h>

void main ( )

{

int num, i, flag = 0;

printf("enter the number:");

scanf("%d",&num);

for (i=2 ; i < num-1 ; i++)

{

if (num % i ==0)

{

flag =1;

Break;

}

}

if(flag ==0)

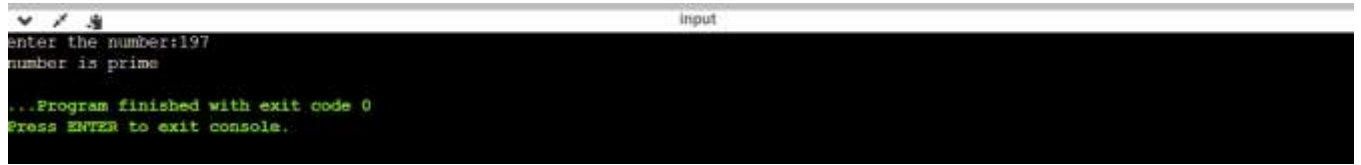
{
```

```
printf ("number is prime");  
  
}  
  
else  
  
{  
  
printf ("the number is not prime");  
  
}  
  
}
```

## **RESULT**

Obtained the program to find the given number is prime or not

## OUTPUT



```
enter the number:197
number is prime

...Program finished with exit code 0
Press ENTER to exit console.
```



```
enter the number:196
the number is not prime

...Program finished with exit code 0
Press ENTER to exit console.
```

Program: 6

Date:

## **SUM AND AVERAGE OF N NUMBERS**

### **AIM**

write a program to find sum and average of n natural numbers without using formula.

### **PROGRAM:**

```
#include<stdio.h>

void main ( )

{

int I,num,sum=0,average;

printf("enter the number:");

scanf("%d",&num);

for(i=1 ; i<num ; i++)

{

Sum = sum + I;

} printf("sum = %d",sum);

Average = sum / num;

printf("average = %d", average);

}
```

### **RESULT**

Obtained the program to find sum and average of n natural numbers without using formula

## OUTPUT



A screenshot of a terminal window with a title bar that includes standard window controls and the text 'input'. The terminal has a black background with green text. The output shows a program that prompts for a number, calculates a sum and average, and then displays the results before finishing.

```
enter the number:10
sum=45
average = 4

...Program finished with exit code 0
Press ENTER to exit console.
```

Program: 7

Date:

## **AREA AND PERIMETER OF A CIRCLE**

### **Aim**

write a program to find area and perimeter of a circle of radius 6

### **PROGRAM**

```
#include<stdio.h>

#define pi 3.14

void main ( )

{

int rad = 6;

float per, area;

area = pi*(rad*rad);

printf(" area = %f\n",area);

per = 2*(pi*rad);

printf("perimeter = %f\n",per);

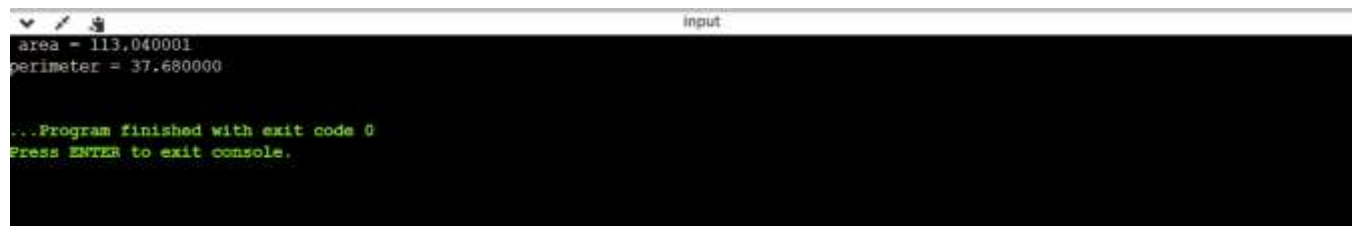
}
```

### **RESULT**

Obtained the program to find area and perimeter of a circle of radius 6



## OUTPUT



The screenshot shows a terminal window with a title bar containing icons and the word "input". The terminal output is as follows:

```
area = 113.040001  
perimeter = 37.680000  
  
...Program finished with exit code 0  
Press ENTER to exit console.
```

**Program: 8**

**Date:**

## **SIZE OF VARIABLES**

### **AIM**

write a program to print size of variables

### **PROGRAM**

```
#include<stdio.h>

void main ( )

{ int a =1;

char b = 'G';

double c = 3.14;

printf ("hello world \n");

printf ("integer is %d \n",a);

printf ( "character is  %c \n",b);

printf ("double is %f \n",c);

printf ("size of integer is %u \n", size of( a));

printf ("size of character is %u \n", size of (b));

printf ("size of double is %u \n", size of (c));return 0;

}
```

### **RESULT**

Obtained the program to print the size of variables

## OUTPUT

```
hello world
integer is 1
character is G
double is 3.140000
size of integer is 4
size of character is 1
size of double is 8

...Program finished with exit code 0
Press ENTER to exit console.
```

Program: 9

Date:

## **SUM OF ARRAYS**

### **AIM**

write a program to add 10 array elements

### **PROGRAM**

```
#include<stdio.h>

void main()

{

int a[10],n=10,sum=0,i;

printf("\nEnter the 10 array elements:");

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

{

scanf("%d",&a[i]);

sum=sum+a[i];

}

printf("sum=%d",sum);

}
```

### **RESULT**

Obtained the program to add 10 array elements

## OUTPUT

```
sum=51010  
Enter the 10 array elements:2 3 4 5 6 7 8 9 10 11  
sum=65
```

Program: 10

Date:

## COUNTING ODD AND EVEN NUMBERS

### AIM

write a program to count odd and even numbers in an array

### PROGRAM

```
# include <stdio.h>

void main ( ){int a[100] ,i , n , odd =0 ,even =0;

printf ( "\nenter the size of an array:");

scanf ("%d",& n);

printf ("\nenter the elements of an array :");

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

{ scanf ("%d",&a[i]);

if (( a[i] % 2) ==0) {

even ++ ; }

else

{ odd ++ ;

}} printf ("\neven number : %d" , even) ;

printf ("\nodd number : %d" , odd) ;

}
```

### RESULT

Obtained the program to count odd and even numbers in an array

## OUTPUT

```
enter the size of an array:5
enter the elements of an array :1 2 3 4 5
even number : 2
odd number : 3
```

Program: 11

Date:

## **COPY ALL ELEMENTS OF ONE ARRAY TO ANOTHER**

### **AIM**

write a program to copy elements of one array to another

### **PROGRAM**

```
#include <stdio.h>

void main ( )

{

int n , i , a [10] , b [10] ;

printf ( “enter the size of array:” ) ;

scanf ( “%d”,&n) ;

printf ( “enter the elements of an array :”) ; for (i = 0; i <
n; i++)

{

scanf ( “%d”, & a[i] ) ;

}

printf ( “the first array is :”) ;

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

{

printf ( “%d” , a[i] ) ;

}

printf ( “the second array is :”) ;
```




```
For (i = 0; i < n: i++)  
  
{  
  
b[i] = a[i] ;  
  
Printf ("%d, b[i] ) ;  
  
}
```

## **RESULT**

Obtained the program to copy the elements of one array to another

## OUTPUT



A screenshot of a terminal window with a dark background. The title bar at the top shows standard window controls and the word 'input'. The terminal text is as follows:

```
enter the size of array:3
enter the elements of an array :1 4 7
the first array is :147the second array is :147

...Program finished with exit code 0
Press ENTER to exit console.
```

Program: 12

Date:

## **MAXIMUM AND MINIMUM NUMBER IN AN ARRAY**

### **AIM**

write a program to find maximum and minimum number of elements in an array

### **PROGRAM**

```
#include<stdio.h>

void main( )

{

int arr[100],i,n,max,min;

printf("enter the size of array:");

scanf("%d",&n);

printf("enter the elements of array:");

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

{

scanf("%d",&arr[i]);

}

max=min=arr[0];

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

{

if(arr[i]>max)

{
```

```
max=arr[i];  
  
}  
  
if(arr[i]<min)  
  
{  
  
min=arr[i];  
  
  
}  
  
}  
  
printf("Maximum no. is:%d\n",max);  
  
printf("Minimum no. is:%d",min);  
  
printf("\n\n");  
  
}
```

## **RESULT**

Obtained the program to find the maximum and minimum number of elements in an array

## OUTPUT



```
enter the size of array:5
enter the elements of array:3 5 2 8 7
Maximum no. is:8
Minimum no. is:2

...Program finished with exit code 0
Press ENTER to exit console.
```

Program: 13

Date:

## MATRIX ADDITION

### AIM

write a program to find the sum of 2 matrices, display input and output matrix

### PROGRAM:

```
#include<stdio.h>

Void main ( )

{

int a[100][100],b[100][100],c[100][100],i,j,m,n;

printf("enter the size of matrix:");

scanf("%d%d",&m,&n);

printf("enter the elements of first matrix:\n");

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

{

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

{

scanf("%d",&a[i][j]);

}

}

printf("enter the elements of second matrix:\n");

for(i=0;i<m;i++)
```

```

{
for(j=0;j<n;j++)
{
scanf("%d",&b[i][j]);
}
}

printf("display the first matrix:\n");
for(i=0;i<m;i++)
{
for(j=0;j<n;j++)
{
printf("%d\t",a[i][j]);
}
printf("\n");
}

printf("display the second matrix:\n");
for(i=0;i<m;i++)
{
for(j=0;j<n;j++)

{
printf("%d\t",b[i][j]);
}
printf("\n");
}

```

```

printf("sum of two matrix is:\n");

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

{

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

{

c[i][j]=a[i][j]+b[i][j];

}

}

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

{

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

{

printf("%d\t",c[i][j]);

}

printf("\n");

}

}

```

## RESULT

Obtained the program to find the sum of 2 matrices and displayed the input and output matrix



## OUTPUT

```
input
enter the size of matrix:2
2
enter the elements of first matrix:
1 4
4 3
enter the elements of second matrix:
2 4
6 3
display the first matrix:
1      4
4      3
display the second matrix:
2      4
6      3
sum of two matrix is:
3      8
10     6
```

Program: 14

Date:

## MATRIX MULTIPLICATION

### AIM

Write a program to enter 2 matrices of  $m \times n$  order. Find the product of 2 matrices, display input and output matrix and also check for matrix multiplication

### PROGRAM

```
#include<stdio.h>

void main ( )

{

int a[100][100],b[100][100],c[100][100],i,j,m,n,k,p,q;

printf("enter the size of first matrix:\n");

scanf("%d%d",&m,&n);

printf("enter the size of second matrix:\n");

scanf("%d%d",&p,&q); if(n!=p)

{

printf("Multiplication is not possible\n");

}

else

{

printf("enter the elements of first matrix:\n");

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

{
```

```

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

{

scanf("%d",&a[i][j]);

}

}

printf("enter the elements of second matrix:\n");

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

{

for(j=0;j<q;j++)

{

scanf("%d",&b[i][j]);

}

}

printf("display the first matrix:\n");

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

{

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

{

printf("%d\t",a[i][j]);

}

printf("\n");

}

printf("display the second matrix:\n");

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

{

```

```

for(j=0;j<q;j++)
{
printf("%d\t",b[i][j]);

}

printf("\n");

}

printf("product of matrices is:\n");

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

{

for(j=0;j<q;j++)

{

for(k=0;k<p;k++)

{

c[i][j]=c[i][j]+a[i][k]*b[k][j];

}

} }for(i=0;i<m;i++)

{

for(j=0;j<q;j++){

printf("%d\t",c[i][j]);

}

printf("\n");

} } }

```

## RESULT:

Obtained the program to find the product of 2 matrices and displayed input and output matrix

## OUTPUT

```
input
enter the size of first matrix:
2
2
enter the size of second matrix:
2 2
enter the elements of first matrix:
2 3
4 2
enter the elements of second matrix:
2 1
1 2
display the first matrix:
2      3
4      2
display the second matrix:
2      1
1      2
product of matrices is:
7      8
10     8

...Program finished with exit code 0
Press ENTER to exit console.
```

Program: 15

Date:

## TRANSPOSE AND SYMMETRIC

### AIM

write a program to find transpose of a matrix. Also check whether it is symmetric or not

### PROGRAM:

```
#include<stdio.h>

void main( )

{

int a[12][12],transpose[12][12];

int i,j,m,n,flag=1;

printf("Enter the number of rows and columns of matrix\n"); scanf("%d%d",&m,&n);


printf("Enter the elements of the matrix\n");

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

{

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

{

scanf("%d",&a[i][j]);

}

}

printf("The matrix\n");
```

```

for(i=0;i<m;i++)
{
for(j=0;j<n;j++)
{
printf("%d\t",a[i][j]);

}
printf("\n");
}

//To find transpose
for(i=0;i<m;i++)
{
for(j=0;j<n;j++)
{
transpose[j][i]=a[i][j];

}

}

printf("The transpose matrix\n");

for(i=0;i<n;i++)
{
for(j=0;j<m;j++)
{
printf("%d\t",transpose[i][j]);

}

printf("\n");

}

if(m==n)

```

```

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

{
for(j=0;j<n;j++)

{
if(a[i][j]!=transpose[i][j])

{
flag=0;

break;

}

}

if(flag==0)

{

printf("\nThe matrix is not symmetric");

break;

}

} if(flag==1)

{printf("\nThe matrix is symmetric");

}

}

else

{ printf("\nThe matrix is not symmetric"); }

}

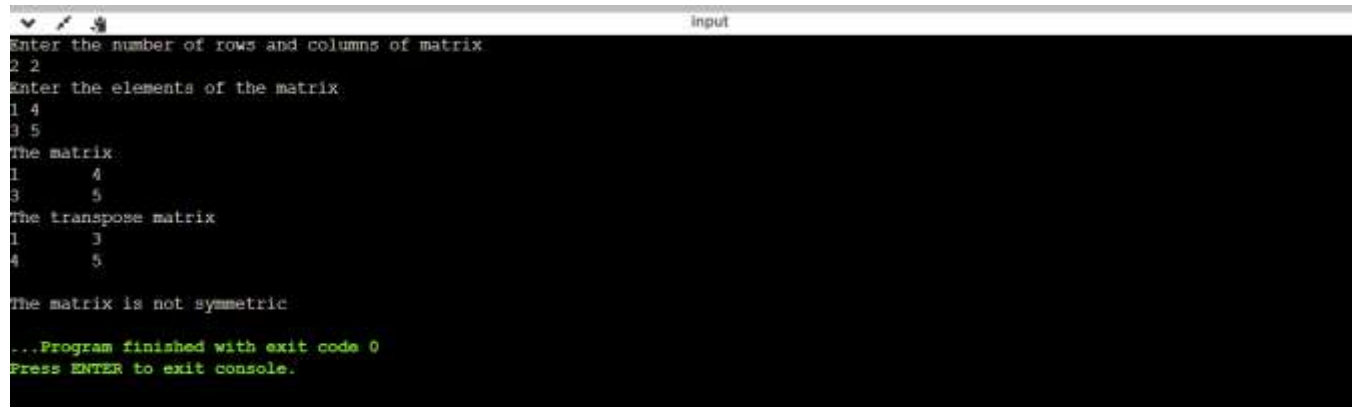
```

## RESULT:

Obtained the program to find the transpose of a matrix and also checked whether it is symmetric or not



## OUTPUT



```
input
Enter the number of rows and columns of matrix
2 2
Enter the elements of the matrix
1 4
3 5
The matrix
1      4
3      5
The transpose matrix
1      3
4      5
The matrix is not symmetric
...Program finished with exit code 0
Press ENTER to exit console.
```

Program: 16

Date:

## SWAPING VALUES

### AIM

Write a program to swap two values

### PROGRAM

```
#include<stdio.h>

void change(int,int);

void replace(int*,int*);

void main()

{

int x,y,p,s;

printf("enter the two numbers:");

scanf("%d%d",&x,&y");

change(x,y);

printf("value x=%d and value y=%d",x,y);

printf("enter two numbers:");

scanf("%d%d",&p,&s);

replace(&p,&s);

printf("p=%d,s=%d",p,s);

}

void change(int a,int b)
```

```

{

int k;

k=a;

a=b;

b=k;

printf("swaping using call by value:");

printf("%d%d",a,b);

}

void replace(int *a,int *b)

{

int k;

k=*a;

*a=*b;

*b=k;

Printf("value of a=%d and value of b=%d",*a,*b);

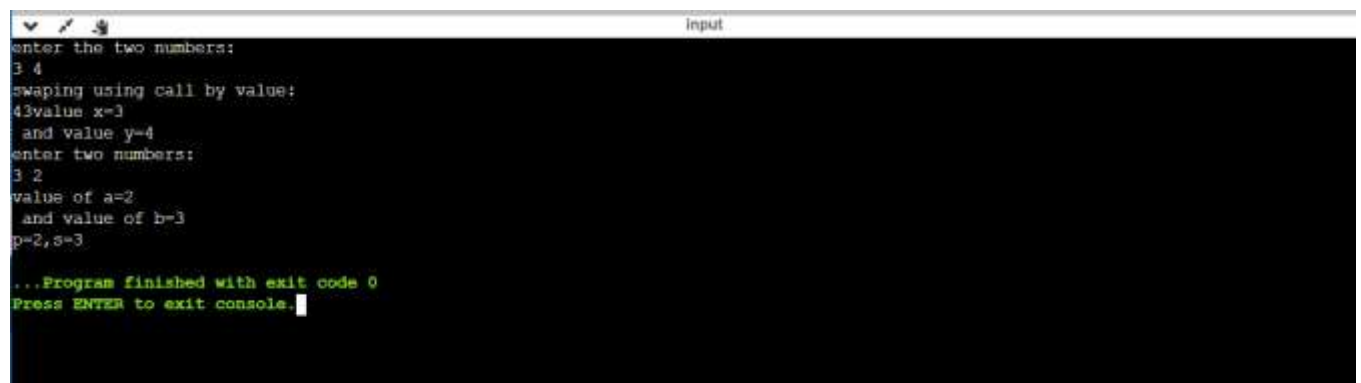
}

```

## **RESULT:**

Obtained the program to swap the two values

## OUTPUT

A screenshot of a console window with a black background and white text. The window has a title bar at the top with the word "Input" on the right. The text in the console shows a program that prompts for two numbers, performs a swap using call by value, and then prints the values of variables x, y, a, and b. The program ends with a message indicating it finished with exit code 0 and a prompt to press ENTER to exit the console.

```
Input
enter the two numbers:
3 4
swaping using call by value:
43value x=3
and value y=4
enter two numbers:
3 2
value of a=2
and value of b=3
p=2,s=3

...Program finished with exit code 0
Press ENTER to exit console.
```

Program:17

Date:

## INSERT AN ELEMENT INTO THE ARRAY

### Aim

Write a Program to insert an element into an array.

### Program

```
#include <stdio.h>

void main()
{
    int arr[100];

    int i, x, a, pos, n ;

    printf("enter the size of array:");

    scanf("%d",&n);

    printf("enter the elements in array:");

    // initial array of size 10

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

        scanf("%d",&arr[i]);

    // element to be inserted

    printf("enter the element to be inserted:");

    scanf("%d",&x);

    printf("enter the position in wich element to be inserted:");
```

```
scanf("%d",&pos);
```

```
a=n;
```

```
a++;
```

```
// shift elements forward
```

```
for (i = a-1; i >= pos; i--)
```

```
arr[i] = arr[i - 1];
```

```
// insert x at pos
```

```
arr[pos - 1] = x;
```

```
for(i = 0; i < n+1; i++)
```

```
printf("%d ", arr[i]);
```

```
printf("\n");
```

```
getch();
```

```
}
```

## **RESULT**

The program to insert an element into an array is done and output is obtained.

## OUTPUT

```
enter the size of array:5
enter the elements in array:2 8 9 2 4
enter the element to be inserted:3
enter the position in wich element to be inserted:3
2 8 3 9 2 4
```

Program:18

Date:

## **DELETE AN ELEMENT FROM AN ARRAY**

### **AIM**

Write a program to delete an element from the array

### **PROGRAM**

```
#include<stdio.h>

void main()

{

int a[100],i,n,pos;


printf("\nEnter no of elements\n");

scanf("%d",&n);


printf("Enter the elements\n");

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

{

scanf("%d",&a[i]);

}

printf("Enter the position from which the number has to be deleted\n");

scanf("%d",&pos);

for(i=pos;i<n-1;i++)

{
```



```
a[i]=a[i+1];  
  
}  
  
n=n-1;  
  
printf("\nOn Deletion, new array we get is\n");  
  
for(i=0;i<n;i++)  
{  
    printf("a[%d] = %d\n",i,a[i]);  
}  
}
```

## **RESULT**

The program to delete an element in an array is done and output obtained successfully.

## OUTPUT

```
Enter no of elements
5
Enter the elements
2 1 5 6 8
Enter the position from which the number has to be deleted
3

On Deletion, new array we get is
a[0] = 2
a[1] = 1
a[2] = 5
a[3] = 8
```

Program:19

Date:

## MERGE AND REVERSE OF AN ARRAY

### AIM

Write a program to merge and reverse of an array.

### PROGRAM

```
#include<stdio.h>

#include<conio.h>

int main()

{

int rev[20],arr1[50],j=0, arr2[50], size1, size2, i, k, merge[100];

printf("\nEnter Array 1 Size: ");

scanf("%d", &size1);

printf("\nEnter Array 1 Elements: ");

for(i=0; i<size1; i++)

{

scanf("%d", &arr1[i]);

merge[i] = arr1[i];

}

k = i;

printf("\nEnter Array 2 Size: ");

scanf("%d", &size2);

printf("Enter Array 2 Elements: ");
```

```

for(i=0; i<size2; i++)
{
scanf("%d", &arr2[i]);

merge[k] = arr2[i];

k++;
}

printf("\nThe new array after merging is:\n");

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

printf("%d\t",merge[i]);

printf("\n The reveersed array is:");

for(i=k-1; i>=0; i--)

{

rev[j]=merge[i];

printf("%d ", rev[j]);

j++;

}

getch();

return 0;

}

```

## RESULT

The program to merge array and reverse the merged array is done and output is obtained.

## OUTPUT

```
Enter Array 1 Size: 3
Enter Array 1 Elements: 1 2 3
Enter Array 2 Size: 2
Enter Array 2 Elements: 4 5
The new array after merging is:
1      2      3      4      5
The reversed array is:5 4 3 2 1 _
```

Program:20

Date:

## **SORT AN ARRAY**

### **AIM**

Write a program to sort an array.

### **PROGRAM**

```
#include <stdio.h>

void main()

{

    int i, j, a, n, number[30];

    printf("Enter the value of N \n");

    scanf("%d", &n);

    printf("Enter the numbers \n");

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

        scanf("%d", &number[i]);

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

    {

        for (j = i + 1; j < n; ++j)
```

```

{

if (number[i] > number[j])

{

a = number[i];
number[i] = number[j];
number[j] = a;

} }

}

printf("The numbers arranged in ascending order are given below \n");
for (i = 0; i < n; ++i)
printf("%d\n", number[i]);
}

```

## RESULT

The program to sort an array is done and output is obtained.

## OUTPUT

```
Enter the value of N
3
Enter the numbers
5 2 9
The numbers arranged in ascending order are given below
2
5
9
Enter the value of N
```



Program:21

Date:

## **SEARCH AN ELEMENT FROM AN ARRAY**

### **AIM**

Write a program to search an element from the array.

### **PROGRAM**

```
#include<stdio.h>

int main()
{
    int arr[30];

    int key,i,flag = 0,n;

    printf("\n enter the size of the array:");

    scanf("%d",&n);

    printf("\n enter the elements:");

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

        scanf("%d",&arr[i]);

    printf("Enter element to search\n");

    scanf("%d",&key);


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

```
if(arr[i] == key)
{
flag = 1;
break;
}
}

if(flag == 1)
printf("Search Found\n");
else
printf("Search Not Found\n");

return 0;
}
```

## **RESULT**

The program to search an element is done and output is obtained.

## OUTPUT

```
enter the size of the array:3
enter the elements:3 2 4
Enter element to search
2
Search Found
```

Program: 22

Date:

## **FACTORIAL OF A NUMBER**

### **AIM**

Write a program to find the factorial of a number using function

### **PROGRAM**

```
#include<stdio.h>

int fact(int);

void main()

{

int num;printf("enter the number:");

scanf("%d",&num);

int F=fact(num);

printf("factorial is %d",F);

}int fact (int n)

{If((n==0)||(n-1))

{return 1;}

else

{return n(n*fact(n-1));}

}
```

### **RESULT**

Obtained the program to find the factorial of a number using function

## OUTPUT

```
Enter a number: 5
Factorial of 5 = 120
```

Program: 23

Date:

## **G.C.D OF TWO NUMBERS**

### **AIM**

Write a program to print the G.C.D of two numbers using function

### **PROGRAM**

```
#include<stdio.h>

int hcf(int n1, int n2);

int main()
{ int n1, n2;

printf("enter two numbers:");

scanf("%d%d",&n1, &n2);

printf("G.C.D of the numbers is: %d", hcf (n1,n2));

return 0; }

int hcf(int n1, int n2)
{ If(n2!=0)

{ return hcf(n2, n1%n2);

}else

{ return n1; }

}
```

### **RESULT**

Obtained the output of the program to find the G.C.D of the given two numbers using function

## OUTPUT

A screenshot of a terminal window with a dark background. The title bar at the top shows standard window controls and the text 'input'. The terminal content is as follows:

```
enter two numbers:2 3
G.C.D of the numbers is: 1

...Program finished with exit code 0
Press ENTER to exit console.
```

Program: 24

Date:

## **MONTHS AND DAYS IN A NUMBER**

### **AIM**

Write a program to find the number of months and days in a given number

### **PROGRAM**

```
#include<stdio.h>

void main ( )

{

int n, month, days;

printf("enter the number:");

scanf("%d",&n);

month= n/30;

days=n%30;

printf("month =%d\n",month);

printf("days =%d\n",days);

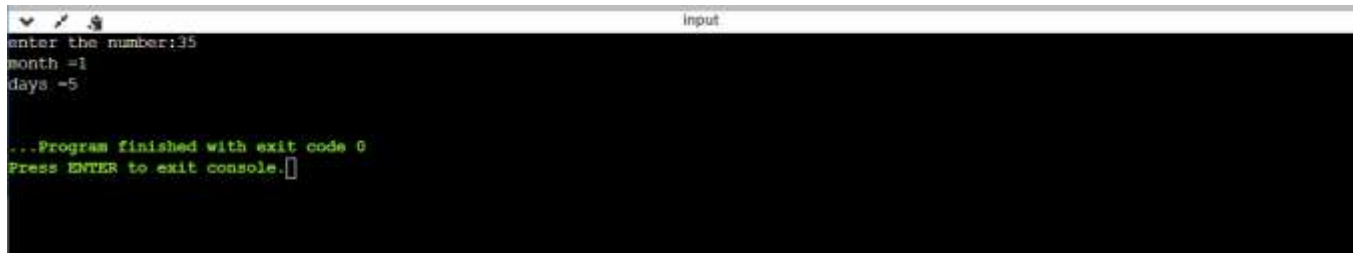
}
```

### **RESULT**

Obtain the program to find the number of months and days in a given number



## OUTPUT

A screenshot of a terminal window with a title bar that says "input". The terminal has a black background with white text. The text displayed is: "enter the number:35", "month =1", "days =5", followed by a blank line, then "...Program finished with exit code 0", and finally "Press ENTER to exit console." with a cursor at the end.

```
enter the number:35
month =1
days =5

...Program finished with exit code 0
Press ENTER to exit console.
```

Program:25

Date:

## **LENGTH OF STRING**

### **AIM**

write a program to find the length of string without using library function

### **PROGRAM**

```
#include<stdio.h>
#include<conio.h>
void main()
{
char s1[30];
int i,c=0;
printf("Enter a string:");
scanf("%s",s1);

for(i=0; s1[i]!='\0'; i++)
{
c++;
}
printf("%d",c);
getch();
}
```

### **RESULT**

The program is done successfully

## OUTPUT

```
Enter a string:Hello world
11
```

Program:26

Date:

## **COPY THE STRING**

### **AIM**

write a program to copy the string without using library function

### **PROGRAM**

```
#include<stdio.h>

#include<conio.h>

void main()

{ char s1[25],s2[25];

int i;printf("\nEnter the first string:\n");

scanf("%s",s1);

printf("\nEnter the second string:\n");

scanf("%s",s2);for(i=0; s1[i]!='\0'; i++)

{ s2[i]=s1[i];}printf("\nafter copying string\n");

printf("\nThe first string=%s\n",s1);

printf("\nThe second string=%s\n",s2);

getch();

}
```

### **RESULT**

The program done successfully.

## OUTPUT

```
Enter the first string:  
Flower  
  
Enter the second string:  
vase  
  
after copying string  
  
The first string=Flower  
The second string=Flower  
_
```

Program:27

Date:

## CONCATENATE TWO STRINGS

### AIM

write a program to concatenate string without using library function

### PROGRAM

```
#include<stdio.h>

#include<conio.h>

void main()

{

char s1[30],s2[30];

int i,k=0;

printf("\nEnter the first string:");

scanf("%s",s1);

printf("\nEnter the second string:");

scanf("%s",s2);

for(i=0; s2[i]!='\0'; i++)

{

k++;

}

for(i=0; s1[i]!='\0'; i++)

{ s2[k]=s1[i];
```

```
k++;  
  
}  
  
printf("\nAfter concatenation:");  
  
printf("%s",s2);  
  
getch();  
  
}
```

## **RESULT**

The program done successfully

## OUTPUT

```
Enter the first string:HELLO
Enter the second string:WORLD
After concatination:WORLDHELLO
```



Program:28

Date:

## COMPARE STRING

### AIM

write a program to compare the string without using library function.

### PROGRAM

```
#include<stdio.h>

#include<conio.h>

void main()

{

char s1[25],s2[25];

int i,f=0;

printf("\nenter the first string:");

scanf("%s",s1);

printf("\nenter the second string:");

scanf("%s",s2);

for(i=0;s2[i]!='\0';i++);

{if(s2[i]!=s1[i])

{f=1;}

}

if(f==1)

printf("strings are not same");
```

```
else  
  
    printf("strings are same");  
  
    getch();  
  
}
```

## **RESULT**

The program done successfully.

## OUTPUT

```
enter the first string:hello
enter the second string:hello
strings are same_
```

Program:29

Date

## REVERSE STRING

### AIM

write a program to reverse the string without using library function

### PROGRAM

```
#include<stdio.h>

#include<conio.h>

void main()

{

char a,s1[30],s2[30];

int i,n,k=0;

printf("\nEnter a string:");

scanf("%s",s1);

for(i=0; s1[i]!='\0'; i++)

{k++;

}n=k;

k=k-1;

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

{

s2[i]=s1[k];

k--;
```

```
}s2[n]='\0';  
  
printf("After reversing the string=%s",s2);  
  
getch();  
  
}
```

## **RESULT**

The program done successfully.

## OUTPUT

```
Enter a string:HELLO  
After reversing the string=OLLEH_
```

Program:30

Date:

## CONVERTION OF LOWERCASE TO UPPERCASE

### AIM

write a program to print the string in uppercase without using library function.

### PROGRAM

```
#include<stdio.h>

#include<conio.h>

void main()

{ char s[25],s2[25];

int i;printf("enter the string:");

scanf("%s",s);

for(i=0;s[i]!='\0';i++)

{ if((s[i]>='a') && (s[i]<='z'))

{ s2[i]=s[i]; }

else{ s2[i]=s[i];}

}printf("%s",s2);memset(s2,0,25);

getch();

}
```

### RESULT

The program done successfully.

## OUTPUT

```
enter the string:helloWORLD  
After converting to UppercaseHELLOWORLD
```



Program:31

Date:

## CONVERSION OF UPPERCASE TO LOWERCASE

### AIM

write a program to print the string in lowercase without using library function

### PROGRAM

```
#include<stdio.h>

#include<conio.h>

void main()

{ char s[25],s2[25];

int i;printf("enter the string:");

scanf("%s",s);

for(i=0;s[i]!='\0';i++)

{ if((s[i]>='A') && (s[i]<='Z'))

{ s2[i]=s[i]+32; }else

{ s2[i]=s[i];

} } printf("%s",s2);

memset(s2,0,25);

getch();

}
```

### RESULT

The program done successfully.

## OUTPUT

```
enter the string:HelloWorLD
```

```
After changing to Lowercase:helloworld_
```

Program:32

Date:

## **FREQUENCY OF A CHARACTER IN A STRING**

### **AIM**

Write a program to calculate the frequency of character in a string.

### **PROGRAM**

```
#include<stdio.h>

#include<conio.h>

#include<string.h>

void main()

{ char s[25];

int i,count=0,j,n;

printf("\nEnter the string:");

scanf("%s",s);

n=strlen(s);

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

{ count=1;

if(s[i])

{ for(j=i+1;j<n;j++)

{ if(s[i]==s[j])

{

count++;
```

```
s[j]='\0';  
}} printf(" %c occurs= %d \n",s[i],count);  
}}  
memset(s,0,25);  
getch();  
}
```

## **RESULT**

The program done successfully.

## OUTPUT

```
After converting to UppercaseHELLOWORLD
enter the string:MATHEMATICS
M occurs= 2
A occurs= 2
T occurs= 2
H occurs= 1
E occurs= 1
I occurs= 1
C occurs= 1
S occurs= 1
```

Program:33

Date:

## **REMOVE SPECIAL CHARACTERS FROM STRING**

### **AIM**

Write a program to remove all characters except alphabets.

### **PROGRAM**

```
#include<stdio.h>

#include<conio.h>

void main()

{

char s[25],s2[25];

int i,l;

printf("enter the string:");

scanf("%[^\\n]",s);

for(i=0;s[i]!='\\0';i++)

{if((s[i]>='a'&& s[i]<='z')||(s[i]>='A'&& s[i]<='Z'))

{ l=strlen(s2);

s2[l]=s[i]; }

} printf("%s",s2);

getch();

}
```

### **RESULT**

Program done successfully.

## OUTPUT

```
enter the string:hello1234@world
```

```
After removing characters except alphabets:helloworld_
```

Program:34

Date:

## **SORT A LIST OF NAMES**

### **AIM**

Write a program to sort array of names.

### **PROGRAM**

```
#include<stdio.h>

#include<string.h>

#include<conio.h>

void main(){ int i,j,n;

char str[100][100],s[100];

printf("Enter number of names :\n");

scanf("%d",&n);

printf("Enter names in any order:\n");

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

scanf("%s",str[i]); }

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

for(j=i+1;j<n;j++)

{

if(strcmp(str[i],str[j])>0){

strcpy(s,str[i]);

strcpy(str[i],str[j]);
```



```
strcpy(str[j],s);  
  
}  
  
}  
  
}  
  
printf("\nThe sorted order of names are:\n");  
  
for(i=0;i<n;i++){  
  
printf("%s\n",str[i]);  } getch();  
  
}
```

## **RESULT**

The program done successfully.

## OUTPUT

```
Enter number of names :  
4  
Enter names in any order:  
ANU  
Remya  
Biju  
Catherin  
  
The sorted order of names are:  
ANU  
Biju  
Catherin  
Remya
```

Program:35

Date:

## **POINTER TO POINTER**

### **AIM**

Write a program to print the values using pointer to pointer concept.

### **PROGRAM**

```
#include<stdio.h>

#include<conio.h>

void main()

{

int *ptr1,**ptr2;

int n=25;

ptr1=&n;

ptr2=&ptr1;

printf("\nn=%d",n);

printf("\nvalue in ptr1=%d",*ptr1);

printf("\nvalue in ptr2=%d",**ptr2);

getch();

}
```

### **RESULT**

The program done successfully.

## OUTPUT

```
n=25  
value in ptr1=25  
value in ptr2=25
```

Program:36

Date:

## **INDEX VALUE AND ADDRESS USING POINTER**

### **AIM**

Write a program to display the index value and address using array to pointer.

### **PROGRAM**

```
#include<stdio.h>

#include<conio.h>

void main()

{

int *ptr,i;

int a[5]={ 10,20,30,40,50};

ptr=&a[0];


for(i=0;i<5;i++)

{printf("\narray[%d]:value:%d and address is :%d",i,*ptr,ptr);

ptr++;

}getch();

}
```

### **RESULT**

The program done successfully

## OUTPUT

```
array[0]:value:10 and address is :-20  
array[1]:value:20 and address is :-18  
array[2]:value:30 and address is :-16  
array[3]:value:40 and address is :-14  
array[4]:value:50 and address is :-12
```

Program:37

Date:

## **DYNAMIC MEMORY ALLOCATION**

### **AIM**

Write a program to implement dynamic memory allocation using Malloc, Calloc, Realloc and Free.

### **PROGRAM**

```
#include<stdio.h>

#include<conio.h>

#include<stdlib.h>

void main()

{

int *ptr,sum=0,n,i;

printf("enter numbers of elements:");

scanf("%d",&n);

ptr=(int*)malloc(n*sizeof(int));

printf("\nmemory allocated using malloc");

printf("enter the elements of array:");

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

{

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

sum=sum+*(ptr+i);

}printf("sum=%d",sum);
```

```

free(ptr);

ptr=(int*)calloc(n,sizeof(int));

sum=0;

printf("\nmemory allocated using calloc");

printf("enter the elemntsof the second array:");

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

{ scanf("%d",ptr+i);

sum=sum+*(ptr+i);

}

printf("sum=%d",sum);

printf("enter new size of second array:");

scanf("%d",&n);

sum=0;

ptr=realloc(ptr,n*sizeof(int));

printf("\nmemory allocated using realloc");

printf("\n enter the elements of second array:");

for(i=0;i<10;i++)

{ scanf("%d",ptr+i);

sum=sum+*(ptr+i);

}

printf("sum=%d",sum);

free(ptr);

getch();

}

```

## RESULT

The program done successfully.



## OUTPUT

```
enter numbers of elements in first array:3
memory allocated using malloc
enter the elements of array:1 2 3
sum=6
enter numbers of elements in second array:4
memory allocated using calloc
enter the elemnts of the second array:1 2 3 4
sum=10
enter new size of second array:6
memory allocated using realloc
enter the elements of second array:1 2 3 4 5 6
sum=21_
```

Program:38

Date:

## **ARRAY OF STRUCTURES**

### **AIM**

Write a program to create student details using array of structures.

### **PROGRAM**

```
#include<stdio.h>

#include<conio.h>

struct student
{
    int rollno;
    char name[25];
    int mark1,mark2,mark3;
    char phno[10];}s[25];

void main(){
    int sum=0,i=0;

    printf("\nEnter the roll no:");

    scanf("%d",&s[i].rollno);

    i++;printf("\nEnter name:");

    scanf("%s",s[i].name);

    i++;printf("\nEnter the marks of student:");

    printf("\nmark1=");

    scanf("%d",&s[i].mark1);
```

```

i++;

printf("\nmark2=");

scanf("%d",&s[i].mark2);

i++;

printf("\nmark3=");

scanf("%d",&s[i].mark3);

sum=s[2].mark1+s[3].mark2+s[4].mark3;

i++;

printf("\nenter phone no:");

scanf("%s",s[i].phno);

i=0;printf("\n Student details");

i++;

printf("\nRoll No:%d",s[i].rollno);

i++;

printf("\nName:%s",s[i].name);

i++;

printf("\nPhone no:%s",s[i].phno);

i++;

printf("\nMark1=%d",s[i].mark1);

i++;printf("\nMark2=%d",s[i].mark2);

i++;

printf("\nMark3 =%d",s[i].mark3);i++;printf("\nSum of mark=%d",sum);

getch();

}

```

## RESULT

The program done successfully.

## OUTPUT

```
enter the rol no:1
enter name:Anu
enter the marks of student:
mark1=34
mark2=35
mark3=33
enter phone no:987654321

Student details
Roll No:1
Name:Anu
Mark1=34
Mark2=35
Mark3 =33
Sum of mark=102
Phone no:987654321
```

Program:39

Date:

## USAGE OF STRUCTURE

### AIM

Write a program to create a student record using structure

### PROGRAM

```
#include<stdio.h>

#include<conio.h>

struct student
{
int rollno;

char name[25];

int mark1,mark2,mark3;

char phno[10];

}s;

void main(){

int sum=0;

printf("\nenter the rol no:");

scanf("%d",&s.rollno);

printf("\nenter name:");

scanf("%s",s.name);

printf("\nenter the marks of student:");
```

```

printf("\nmark1=");

scanf("%d",&s.mark1);

printf("\nmark2=");

scanf("%d",&s.mark2);

printf("\nmark3=");

scanf("%d",&s.mark3);

sum=s.mark1+s.mark2+s.mark3;

printf("\nenter phone no:");

scanf("%s",s.phno);

printf("\n Student details");

printf("\nRoll No:%d",s.rollno);

printf("\nName:%s",s.name);

printf("\nPhone no:%s",s.phno);

printf("\nMark1=%d",s.mark1);

printf("\nMark2=%d",s.mark2);

printf("\nMark3 =%d",s.mark3);

printf("\nSum of mark=%d",sum);

getch();

}

```

## RESULT

The program is done successfully.

## OUTPUT

```
enter the rol no:1
enter name:Anu
enter the marks of student:
mark1=34
mark2=35
mark3=36
enter phone no:888565445

Student details
Roll No:1
Name:Anu
Phone no:888565445
Mark1=34
Mark2=35
Mark3 =36
Sum of mark=105
```

Program:40

Date:

## USAGE OF UNION

### AIM

Write a program to illustrate the usage of union

### PROGRAM

```
#include<stdio.h>

#include<conio.h>

union example{
int i;float f;
char str[20];
};void main()
union example eg;
eg.i=10;printf("\neg.i=%d",eg.i);
eg.f=20.5;
printf("\neg.f=%f",eg.f);
strcpy(eg.str,"hello world");
printf("\neg.str=%s",eg.str);
getch();
}
```

### RESULT

The program is done successfully.



## OUTPUT

```
eg.i=10  
eg.f=20.500000  
eg.str=hello world_
```

Program:41

Date:

## **EMPLOYEE RECORD USING FILE**

### **AIM**

Write a program to create an employee record using file.

### **PROGRAM**

```
#include<stdio.h>

#include<conio.h>

void employee_entry();

void employee_list();

struct emp

{

int empid;

char name[20],place[50],desig[20];

double sallary;

}e;


void main()

{

FILE *fp;

int x,n;

do{

printf("\nMENU");
```

```

printf("\n1.EMPLOYEE ENTRY");

printf("\n2.EMPLOYEE LIST");

printf("\nEnter your choice:");

scanf("%d",&x);

switch(x)

{

case 1:employee_entry();

break;

case 2:employee_list();

break;

}

printf("\nDo u want to continue(1.yes/2.no):");

scanf("%d",&n);

}while(n==1);

getch();

}

void employee_entry()

{

FILE *fp;

fp=fopen("employee.txt","a");

printf("\nEnter the employee id:");

scanf("%d",&e.empid);

printf("\nEnter the name:");

scanf("%s",&e.name);

printf("\nEnter the place:");

scanf("%s",&e.place);

```

```

printf("\nEnter the designation:");

scanf("%s",&e.desig);

printf("\nEnter the sallary:");

scanf("%d",&e.sallary);

fprintf(fp,"%d",e.empid);

fprintf(fp,"%t%s\t%s\t%s\t",e.name,e.place,e.desig);

fprintf(fp,"%d",e.sallary);

fprintf(fp,"\n");

fclose(fp);

}

void employee_list()

{

FILE *fp;

fp=fopen("employee.txt","r");

while(fscanf(fp,"%d\t%s\t%s\t%s\t%d\n",&e.empid,&e.name,&e.place,&e.desig,&e.sallary)!=EOF)

{

printf("%d\t%s\t%s\t%s\t%d\n",e.empid,e.name,e.place,e.desig,e.sallary);

}

fclose(fp);

}

```

## RESULT

The program is done successfully.

## OUTPUT

```
2.EMPLOYEE LIST
Enter your choice:1

Enter the employee id:5

Enter the name:Aishu

Enter the place:ekm

Enter the designation:staff

Enter the sallary:32000

Do u want to continue(1.yes/2.no):1

MENU
1.EMPLOYEE ENTRY
2.EMPLOYEE LIST
Enter your choice:2
1      Akhi      Aluva      Tester      -27976
2      anu       paravoor    engineer     -10536
10     Achu      kalmassery  staff        32000
5      Aishu     ekm        staff        32000

Do u want to continue(1.yes/2.no):
```

Program:42

Date:

## **STUDENT RECORD USING FILE**

### **AIM**

Write a program to create student record using file.

### **PROGRAM**

```
#include<stdio.h>

#include<conio.h>

void student_entry();

void student_list();

struct std

{

int stdid;

char name[20],place[50],desig[20];

char phno[20];

}e;

void main()

{

FILE *fp;

int x,n;

do{
```

```

printf("\nMENU");

printf("\n1.STUDENT ENTRY");

printf("\n2.STUDENT LIST");

printf("\nEnter your choice:");

scanf("%d",&x);

switch(x)

{

case 1:student_entry();

break;

case 2:student_list();

break;

}

printf("\nDo u want to continue(1.yes/2.no):");

scanf("%d",&n);

}while(n==1);

getch();

}

void student_entry()

{

FILE *fp;

fp=fopen("student.txt","a");

printf("\nEnter the student id:");

scanf("%d",&e.stdid);

printf("\nEnter the name:");

scanf("%s",&e.name);

printf("\nEnter the place:");

```

```

scanf("%s",&e.place);

printf("\nEnter the phoneno:");

scanf("%d",&e.phno);

fprintf(fp,"%d",e.stdid);

fprintf(fp,"\t%s\t%s\t",e.name,e.place);

fprintf(fp,"%d",e.phno);

fprintf(fp,"\n");

fclose(fp);

}

void student_list()

{

FILE *fp;

fp=fopen("student.txt","r");

while(fscanf(fp,"%d\t%s\t%s\t%d\n",&e.stdid,&e.name,&e.place,&e.phno)!=EOF)

{

printf("%d\t%s\t%s\t%d\n",e.stdid,e.name,e.place,e.phno);

}

fclose(fp);

}

```

## RESULT

The program done successfully.



## OUTPUT

```
MENU
1.STUDENT ENTRY
2.STUDENT LIST
Enter your choice:1

Enter the student id:3

Enter the name:Aishu

Enter the place:aluva

Enter the phoneno:7586795

Do u want to continue(1.yes/2.no):1

MENU
1.STUDENT ENTRY
2.STUDENT LIST
Enter your choice:2
4      dgdhg   ghfh   1604
3      Aishu   aluva   1604

Do u want to continue(1.yes/2.no):_
```

Program:43

Date:

## SIMPLE PROJECT

### AIM

Write using project using c

### Program

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
#include<string.h>
```

```
void travelmain(char uname[25]);
```

```
void packagebook(char uname[25]);
```

```
void printbrouchure();
```

```
void printticket(char uname[25]);
```

```
void cancelticket(char uname[25]);
```

```
void logout();
```

```
void restoring();
```

```
/*int login(char a[20],char b[20]);*/
```

```
void packagebook(char uname[])
```

```
{
```

```
FILE *fpt,*fp;
```

```
int i,persons,id,price,choice,tprice,date[25];
```

```

char name[25],days[25],dest[25];

printbrouchure();

fpt=fopen("travellers.txt","a+");

fp=fopen("tours.txt","r");

if(fpt==NULL)

{

printf("there is some problem in open your file");

}

else

{

printf("enter your choice(id of travel package :)");

scanf("%d",&i);


printf("enter the no of persons:");

scanf("%d",&persons);

printf("enter date for booking:");

scanf("%s",&date);

while(fscanf(fp,"%d%s%s%s%d",&id,&name,&days,&dest,&price)!=EOF)

{

if(id==i)

{

tprice=price*persons;


}

}

printf("\nthe total amount is:%d",tprice);

```

```

printf("\nare you sure ,confirm booking:(1.yes,2.no):");

scanf("%d",&choice);

if(choice==1)

{

fprintf(fpt,"\n");

fprintf(fpt,"%s",uname);

fprintf(fpt,"\n");

fprintf(fpt,"%d",i);

fprintf(fpt,"\n");

fprintf(fpt,"%d",persons);

fprintf(fpt,"\n");

fprintf(fpt,"%d",tprice);

fprintf(fpt,"\n");

fprintf(fpt,"%s",date);


printf("***your booking is successfull**!");

}

else

{

printf("thankyou for your visit");

}

}}

/*****printing package*****/

void printbrouchure()

{

```



```

int f=0;

FILE *fpt=fopen("travellers.txt","r");

while(fscanf(fpt,"%s%d%d%d%s",&name,&id,&persons,&price,&date)!=EOF)

{

int v=strcmp(uname,name);

if(v==0)

{

printf("*****");

printf("\n**travelling id:%d",id);

printf("\n**no of persons:%d",persons);

printf("\n**the price amount is:%d",price);

printf("\n**the price amount is:%s",date);

printf("\n*****");

f=1;

}

}

if(f==0)

printf("sorry ! you don't have any bookings");

}

/*****cancel ticket*****/

void cancelticket(char uname[])

{

```

```

char name[25],date[20];

int id,persons,price;

FILE *fpt=fopen("travellers.txt","a+");

FILE *fptt=fopen("travel.txt","a+");

/*****storing the details to anothe fil*****/

while(fscanf(fpt,"%s%d%d%s",&name,&id,&persons,&price,&date)!=EOF)

{

int v=strcmp(uname,name);

if(v!=0)

{

fprintf(fptt,"%s",name);

fprintf(fptt,"\n");

fprintf(fptt,"%d",id);

fprintf(fptt,"\n");

fprintf(fptt,"%d",persons);

fprintf(fptt,"\n");

fprintf(fptt,"%d",price);

fprintf(fptt,"\n");

fprintf(fptt,"%s",date);

fprintf(fptt,"\n");

}

```

```

}

fclose(fptt);

restoring();

}

/*****storing back to original file*****/

void restoring()

{

FILE *f,*fpt;

char name[20],date[20];

int id,persons,price;

f=fopen("travel.txt","r");

fpt=fopen("travellers.txt","w");

while(fscanf(f,"%s%d%d%d%s",&name,&id,&persons,&price,&date)!=EOF)

{

fprintf(fpt,"%s",name);

fprintf(fpt,"\n");

fprintf(fpt,"%d",id);

fprintf(fpt,"\n");

fprintf(fpt,"%d",persons);

fprintf(fpt,"\n");

fprintf(fpt,"%d",price);

fprintf(fpt,"\n");

fprintf(fpt,"%s",date);

fprintf(fpt,"\n");

```



```
}  
  
fclose(f);  
  
f=fopen("travel.txt","w");  
  
fclose(fpt);  
  
printf("***your cancellation is successfull***");
```

```
}  
  
void logout()  
{  
  
printf("\nthankyou for your visit");  
  
getch();  
  
exit();  
}
```

```
void travelmain(char uname[])  
{  
  
  
  
  
  
  
  
  
int i;  
  
  
  
  
  
  
  
  
do{
```

```

printf("\n\t1.booking package\n\t2.print ticket\n\t3.cancel ticket\n\t4.print brochure\n\t5.logout user");

printf("\nenter your choice:");

scanf("%d",&i);

switch(i)

{

case 1:packagebook(uname);

break;

case 2:prinnticket(uname);

break;

case 3:cancelticket(uname);

break;

case 4:printbrochure();

break;

case 5:logout();

break;

}

}while(i<=5);

getch();

}

```

## RESULT

The program is done and output is obtained

## OUTPUT

```
do you want to continue:(1.yes/2.no)2
enter your user name:Akhila
enter your password:(8 letters):*****
1.booking package
2.print ticket
3.cancel ticket
4.print brochure
5.logout user
enter your choice:1

```

id	place	destinations	days	price	date
1	lodon	5	4	5000	22/06/2021
2	america	4	5	6700	24/06/2021
3	vegamon	5	5	3500	24/06/2021
4	goa	6	5	3500	28/06/2021
5	delhi	5	3	3000	25/06/2021
6	bali	5	6	5000	25/06/2021
7	africa	5	7	10000	24/06/2021
8	europa	6	5	7000	21/06/2021
9	kerala	5	4	3500	28/06/2021
10	ranchi	4	5	5000	1/07/2021
11	chennai	4	6	2	/07/2021

```
enter your choice(id of travel package):
```

```

1.booking package
2.print ticket
3.cancel ticket
4.print brochure
5.logout user
enter your choice:1

```

id	place	destinations	days	price	date
1	lodon	5	4	5000	22/06/2021
2	america	4	5	6700	24/06/2021
3	vajamon	5	5	3500	24/06/2021
4	goa	6	5	3500	20/06/2021
5	delhi	5	3	3000	25/06/2021
6	bali	5	6	5000	25/06/2021
7	africa	5	7	10000	24/06/2021
8	europa	6	5	7000	21/06/2021
9	kerala	5	4	3500	20/06/2021
10	ranchi	4	5	5000	1/07/2021
11	chennai	4	6	2	/07/2021

```

enter your choice(id of travel package):6
enter the no of persons:5
the total amount is:30000
are you sure ,confirm booking:(1.yes,2.no):1

```

```

=====
packmanelling id:6
sum of package:7
the price amount is:225000/20021
=====
do you want to continue:(1.yes/2.no)2

enter your user name:admin
enter your password:(0: intern):=====f==2
1.ADD PACKAGE
2.DISPLAY PACKAGE enter your option:1

enter the package name:
novaxiam
enter the no of destinations:
1
enter the days:
8
enter the price:
25000
enter the date:(dd/mm/yyyy)
7/07/2021
=====

```