# OBJECTIVE

This program aims to store information of the employees and display them in an efficient way. In the above program, we focus on creating an **Employee** structure containing two structure variables **emp1** and **emp2**, with the pointer variables ***ptr1** and ***ptr2**. The structure Employee is having the name, id, age, gender, and city as the member. All the Employee structure members take their respective values from the user one by one using the pointer variable and arrow operator that determine their space in memory.

PROBLEM DEFINITION

Create a program to demonstrate and access the details of the employees in a company using structures and pointers.

FLOWCHART
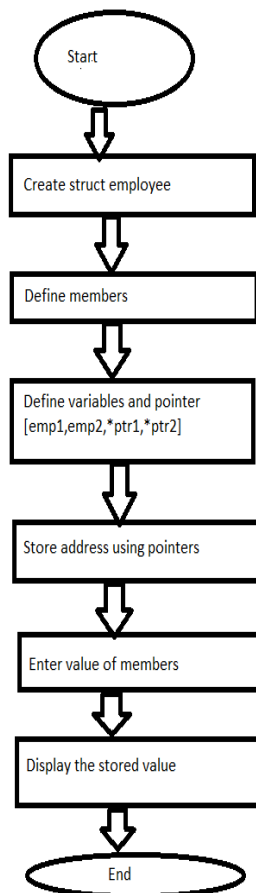
ALGORITHM OF THE PROGRAM

Step 1 : Start

Step 2:   Create structure employee

Step 3:   Define the member of the structure

Step 4: Define the variables of the structure with pointers

Step 5:   Store the address of the employee 1 and employee 2 using
            structure variable

Step 6:   Enter name of employee

Step 7:   Enter the id of the Employee

Step 8:   Enter the age of the Employee

Step 9:   Enter the gender of the Employee

Step 10: Enter the city of the Employee

Step 11: Display the Details of the Employee using Structure Pointer

Step 12: Stop

PROGRAM

```c
#include <stdio.h>

// create Employee structure
struct Employee
{
    // define the member of the structure
    char name[30];
    int empid;
    int age;
    char gender[30];
    char city[40];
};

// define the variables of the Structure with pointers
struct Employee emp1, emp2, *ptr1, *ptr2;

int main()
{
    // store the address of the emp1 and emp2 structure variable
    ptr1 = &emp1;
    ptr2 = &emp2;

    printf (" Enter the name of the Employee (emp1): ");
    scanf (" %s", &ptr1->name);

    printf (" Enter the employee id of the Employee (emp1): ");
    scanf (" %d", &ptr1->empid);
    printf (" Enter the age of the Employee (emp1): ");
    scanf (" %d", &ptr1->age);
    printf (" Enter the gender of the Employee (emp1): ");
    scanf (" %s", &ptr1->gender);
    printf (" Enter the city of the Employee (emp1): ");
```

```c
    scanf (" %s", &ptr1->city);

    printf (" \n Second Employee: \n");
        printf (" Enter the name of the Employee (emp2): ");
    scanf (" %s", &ptr2->name);

    printf (" Enter the employee id of the Employee (emp2): ");
    scanf (" %d", &ptr2->empid);
    printf (" Enter the age of the Employee (emp2): ");
    scanf (" %d", &ptr2->age);
    printf (" Enter the gender of the Employee (emp2): ");
    scanf (" %s", &ptr2->gender);
    printf (" Enter the city of the Employee (emp2): ");
    scanf (" %s", &ptr2->city);

    printf ("\n Display the Details of the Employee using Structure Pointer");
    printf ("\n Details of the Employee (emp1) \n");
    printf(" Name: %s\n", ptr1->name);
    printf(" EmpId: %d\n", ptr1->empid);
    printf(" Age: %d\n", ptr1->age);
    printf(" Gender: %s\n", ptr1->gender);
    printf(" City: %s\n", ptr1->city);

    printf ("\n Details of the Employee (emp2) \n");
    printf(" Name: %s\n", ptr2->name);
    printf(" EmpId: %d\n", ptr2->empid);
    printf(" Age: %d\n", ptr2->age);
    printf(" Gender: %s\n", ptr2->gender);
    printf(" City: %s\n", ptr2->city);
    return 0;
}
```

OUTPUT SCREEN

```
/tmp/C7k2P3dNCT.o
Enter the name of the Employee (emp1): Alex
Enter the employee id of the Employee (emp1): 2004
Enter the age of the Employee (emp1): 34
Enter the gender of the Employee (emp1): Male
Enter the city of the Employee (emp1): Austin
Second Employee:
 Enter the name of the Employee (emp2): Rick
 Enter the employee id of the Employee (emp2): 2384
 Enter the age of the Employee (emp2): 41
 Enter the gender of the Employee (emp2): Male
 Enter the city of the Employee (emp2): Dallas
 Display the Details of the Employee using Structure Pointer
 Details of the Employee (emp1)
 Name: Alex
 EmpId: 2004
 Age: 34
 Gender: Male
 City: Austin
```

```
 Details of the Employee (emp2)
 Name: Rick
 EmpId: 2384
 Age: 41
 Gender: Male
 City: Dallas
```

PROJECT BY -

HAJNA SHAIK   - 154
AMRITHA R.   - 173
SATYA ANILA MANDA - 183