20BCS042 MOHD ADIL

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#include <stdio.h>
#include <string.h>
#include<stdlib.h>

struct employee
{
   int empid;
   char name[20];
   int salary;
};
struct employee e[10];
int count = 0;
void add(int n)
{
   for (int i = 0; i < n; i++)
   {
      printf("Employee id: ");
      scanf("%d", &e[i].empid);
      printf("Employee Name: ");
      scanf("%s", &e[i].name);
      printf("Employee Salary: ");
      scanf("%d", &e[i].salary);
      count++;
   }
   printf("Employees Added Successfully\n");
}
void display()
{
```

```
    if (count == 0)
    {
        printf("No Employee to Display\n");
    }
    else
    {
        for (int i = 0; i < count; i++)
        {
            printf("Employee No. %d\n", i + 1);
            printf("Id: %d\n", e[i].empid);
            printf("Name: %s\n", e[i].name);
            printf("Salary: %d\n", e[i].salary);
        }
    }
}
void searchbyid(int id)
{
    if (count == 0)
    {
        printf("No Employee to Search\n");
    }
    else
    {
        int f = 0;
        for (int i = 0; i < count; i++)
        {
            if (e[i].empid == id)
            {
                f = 1;
```

```
            printf("Id: %d\n", e[i].empid);
            printf("Name: %s\n", e[i].name);
            printf("Salary: %d\n", e[i].salary);
        }
    }
    if (f == 0)
    {
        printf("No such employee found\n");
    }
  }
}
void searchbyname(char name[])
{
  if (count == 0)
  {
    printf("No Employee to Search\n");
  }
  else
  {
    int f = 0;
    for (int i = 0; i < count; i++)
    {
      if (strcmp(e[i].name, name) == 0)
      {
        f = 1;
        printf("Id: %d\n", e[i].empid);
        printf("Name: %s\n", e[i].name);
        printf("Salary: %d\n", e[i].salary);
      }
```

```
        }
        if (f == 0)
        {
            printf("No such employee found\n");
        }
    }
}
void highestsalary(){
    int maxsalary=0,id=0;
    for (int i = 0; i < count; i++)
    {
        if (e[i].salary>maxsalary)
        {
            maxsalary=e[i].salary;
            id=e[i].empid;
        }

    }
    printf("Highest Salary is %d of the Employee having id %d\n",maxsalary,id);
}
int main()
{

    while (1)
    {
        int ch;
        printf("Enter 1 to Add Employee\n");
        printf("Enter 2 to Display All Employee\n");
        printf("Enter 3 to Search Employee by empid\n");
```

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printf("Enter 4 to Search Employee by name\n");
printf("Enter 5 to dispay Employee having highest Salary\n");
printf("Enetr 6 to Exit\n");
printf("Enter your Choice: ");
scanf("%d", &ch);
switch (ch)
{
case 1:
   printf("Case 1\n");
   printf("Enter the number of Employees you want to Add: ");
   int n;
   scanf("%d", &n);
   add(n);
   break;
case 2:
   printf("Case 2\n");
   display();
   break;
case 3:
   printf("Case 3\n");
   printf("Enter Employee id to Search: ");
   int id;
   scanf("%d", &id);
   searchbyid(id);
   break;
case 4:
   printf("Case 4\n");
   printf("Enter Employee name to search: ");
   char name[20];
```

```
            scanf("%s", name);
            searchbyname(name);
            break;
        case 5:
            printf("Case 5\n");
            highestsalary();
            break;
        case 6:
            printf("Exiting\n");
            exit(0);
        }
    }

    return 0;
}
```

OUTPUT

```
PS C:\Users\aadil\Desktop\CSE\lab> cd "c:\Users\aadil\Desktop\CSE\lab\" ; if ($?) { gcc structure.c -o structure } ; if ($?) { .\structure }
Enter 1 to Add Employee
Enter 2 to Display All Employee
Enter 3 to Search Employee by empid
Enter 4 to Search Employee by name
Enter 5 to dispay Employee having highest Salary
Enetr 6 to Exit
Enter your Choice: 1
Case 1
Enter the number of Employees you want to Add: 2
Employee id: 101
Employee Name: adil
Employee Salary: 10000
Employee id: 102
Employee Name: soban
Employee Salary: 15000
Employees Added Successfully
Enter 1 to Add Employee
Enter 2 to Display All Employee
Enter 3 to Search Employee by empid
Enter 4 to Search Employee by name
Enter 5 to dispay Employee having highest Salary
Enetr 6 to Exit
Enter your Choice: 2
Case 2
Employee No. 1
Id: 101
Name: adil
Salary: 10000
Employee No. 2
Id: 102
Name: soban
Salary: 15000
Enter 1 to Add Employee
Enter 2 to Display All Employee
Enter 3 to Search Employee by empid
Enter 4 to Search Employee by name
Enter 5 to dispay Employee having highest Salary
Enetr 6 to Exit
Enter your Choice: 3
```

```
Case 3
Enter Employee id to Search: 101
Id: 101
Name: adil
Salary: 10000
Enter 1 to Add Employee
Enter 2 to Display All Employee
Enter 3 to Search Employee by empid
Enter 4 to Search Employee by name
Enter 5 to dispay Employee having highest Salary
Enetr 6 to Exit
Enter your Choice: 4
Case 4
Enter Employee name to search: soban
Id: 102
Name: soban
Salary: 15000
Enter 1 to Add Employee
Enter 2 to Display All Employee
Enter 3 to Search Employee by empid
Enter 4 to Search Employee by name
Enter 5 to dispay Employee having highest Salary
Enetr 6 to Exit
Enter your Choice: 5
Case 5
Highest Salary is 15000 of the Employee having id 102
Enter 1 to Add Employee
Enter 2 to Display All Employee
Enter 3 to Search Employee by empid
Enter 4 to Search Employee by name
Enter 5 to dispay Employee having highest Salary
Enetr 6 to Exit
Enter your Choice: 6
Exiting
PS C:\Users\aadil\Desktop\CSE\lab>
```