## Employee Management System using File Handling

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Batch: GGN\_02\_27th July\_C

## **Code Screenshots:**

```
© 200762_Harshit_EmployeeManagementSystem_Using_FileHandling.c × ≡ employee.txt ●
C: \gt Users \gt HP \gt Desktop \gt c \gt C 200762_Harshit_EmployeeManagementSystem_Using_FileHandling.c \gt ...
      #include <stdlib.h>
      void AddEmployee(FILE *fptr)
         if (fptr == NULL)
             printf("Error!\n");
         int EmployeeID;
         char EmployeeName[20];
         int EmployeeSalary;
         char Department[10];
         printf("\nEnter Employee ID: ");
         scanf("%d", &EmployeeID);
        printf("Enter Employee Name: ");
         scanf("%s", EmployeeName);
         scanf("%d", &EmployeeSalary);
         printf("Enter Employee Department: ");
         scanf("%s", Department);
```

```
© 200762_Harshit_EmployeeManagementSystem_Using_FileHandling.c × ≡ employee.txt ●
      void DeleteEmployee(FILE *fptr)
         int dlt id:
         printf("\nEnter id You want to delete: ");
scanf("%d", &dlt_id);
         FILE *tempFile = fopen("C:\\Users\\HP\\Desktop\\c\\temp_employee.txt", "w");
         if (tempFile == NULL)
             printf("Error!\n");
         int EmployeeID;
         char EmployeeName[20];
         int EmployeeSalary;
         char Department[10];
         while (fscanf(fptr, "%d %s %d %s", &EmployeeID, EmployeeName, &EmployeeSalary, Department) != EOF)
             if (EmployeeID != dlt_id)
                 fprintf(tempFile, "%d %s %d %s\n", EmployeeID, EmployeeName, EmployeeSalary, Department);
         fclose(fptr);
         fclose(tempFile);
         remove("C:\\Users\\HP\\Desktop\\c\\employee.txt");
```

```
© 200762_Harshit_EmployeeManagementSystem_Using_FileHandling.c × ≡ employee.txt ●
C: > Users > HP > Desktop > c > 🧯 200762_Harshit_EmployeeManagementSystem_Using_FileHandling.c > 😚 AddEmployee(FILE *)
       void UpdateEmployee(FILE *fptr)
            int upd id;
            printf("\nSelect id You want to update: ");
            scanf("%d", &upd_id);
            FILE *tempFile = fopen("C:\\Users\\HP\\Desktop\\c\\temp_employee.txt", "w");
            if (tempFile == NULL)
                printf("Error!\n");
            int EmployeeID;
            char EmployeeName[20];
            int EmployeeSalary;
           char Department[10];
            while (fscanf(fptr, "%d %s %d %s", &EmployeeID, EmployeeName, &EmployeeSalary, Department) != EOF)
                if (EmployeeID == upd_id)
                    printf("Current Employee Name: %s\n", EmployeeName);
printf("Enter Updated Employee Name: ");
                     scanf("%s", EmployeeName);
                    printf("Current Employee Salary: %d\n", EmployeeSalary);
printf("Enter Updated Employee Salary: ");
                    scanf("%d", &EmployeeSalary);
                    printf("Current Employee Department: %s\n", Department);
                     scanf("%s", Department);
                fprintf(tempFile, "%d %s %d %s\n", EmployeeID, EmployeeName, EmployeeSalary, Department);
```

```
C 200762_Harshit_EmployeeManagementSystem_Using_FileHandling.c X ≡ employee.txt ●
C: > Users > HP > Desktop > c > C 200762_Harshit_EmployeeManagementSystem_Using_FileHandling.c > 🗘 AddEmployee(FILE *)
          fclose(fptr);
          fclose(tempFile);
          remove("C:\\Users\\HP\\Desktop\\c\\employee.txt");
          rename("C:\\Users\\HP\\Desktop\\c\\temp_employee.txt", "C:\\Users\\HP\\Desktop\\c\\employee.txt");
          printf("\nEmployee id: %d updated successfully\n", upd_id);
printf("*************************\n");
      int main()
          int ch;
          FILE *fptr;
          printf("\n***********\n");
          while (1)
              printf("\nSelect an option:\n");
              printf("1.Add an Employee\n");
printf("2.Delete an Employee\n");
              printf("3.Show Employees\n");
              printf("4.Update an Employee\n");
              printf("5.Exit\n");
              printf("\nEnter your choice: ");
              scanf("%d", &ch);
```

```
C 200762_Harshit_EmployeeManagementSystem_Using_FileHandling.c X ≡ employee.txt ●
                   fptr = fopen("C:\\Users\\HP\\Desktop\\c\\employee.txt", "a");
                   AddEmployee(fptr);
                   fclose(fptr);
               case 2:
                   fptr = fopen("C:\\Users\\HP\\Desktop\\c\\employee.txt", "r");
                   DeleteEmployee(fptr);
                   fptr = fopen("C:\\Users\\HP\\Desktop\\c\\employee.txt", "r");
                   if (fptr == NULL)
                       printf("Error!\n");
                   ShowEmployee(fptr);
                   fclose(fptr);
                   fptr = fopen("C:\\Users\\HP\\Desktop\\c\\employee.txt", "r+");
                       printf("Error!\n");
                   UpdateEmployee(fptr);
                   printf("\nThank you! Have a nice day.\n");
                   exit(0);
                   printf("\nInvalid choice! Please select a valid option.\n");
```

## Source Code:

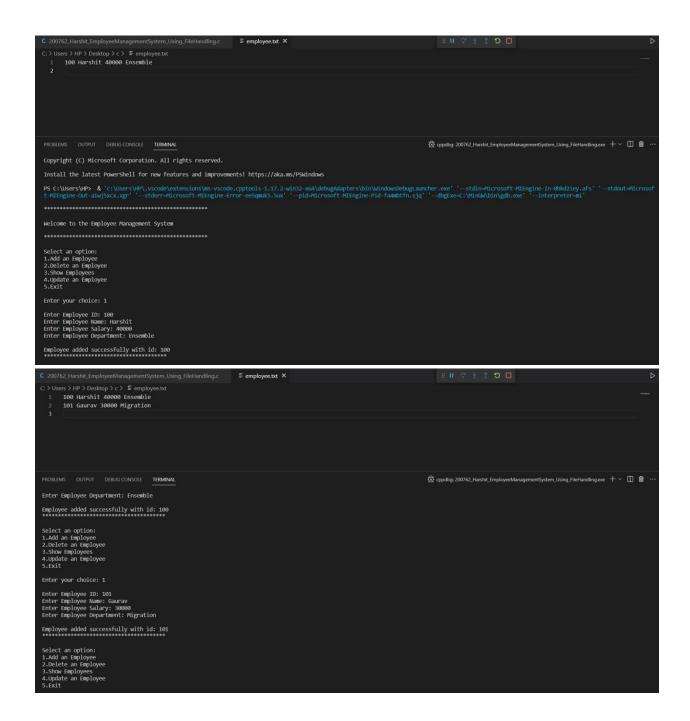
```
#include <stdio.h>
#include <stdlib.h>
void AddEmployee(FILE *fptr)
{
   if (fptr == NULL)
       printf("Error!\n");
       exit(1);
    }
   int EmployeeID;
   char EmployeeName[20];
    int EmployeeSalary;
    char Department[10];
    printf("\nEnter Employee ID: ");
    scanf("%d", &EmployeeID);
    printf("Enter Employee Name: ");
    scanf("%s", EmployeeName);
    printf("Enter Employee Salary: ");
    scanf("%d", &EmployeeSalary);
    printf("Enter Employee Department: ");
    scanf("%s", Department);
    fprintf(fptr, "%d %s %d %s\n", EmployeeID, EmployeeName, EmployeeSalary,
Department);
    printf("\nEmployee added successfully with id: %d\n", EmployeeID);
    }
void DeleteEmployee(FILE *fptr)
{
    int dlt id;
    printf("\nEnter id You want to delete: ");
    scanf("%d", &dlt_id);
   FILE *tempFile = fopen("C:\\Users\\HP\\Desktop\\c\\temp_employee.txt", "w");
   if (tempFile == NULL)
       printf("Error!\n");
       exit(1);
    }
    int EmployeeID;
   char EmployeeName[20];
    int EmployeeSalary;
   char Department[10];
   while (fscanf(fptr, "%d %s %d %s", &EmployeeID, EmployeeName, &EmployeeSalary,
Department) != EOF)
    {
       if (EmployeeID != dlt_id)
```

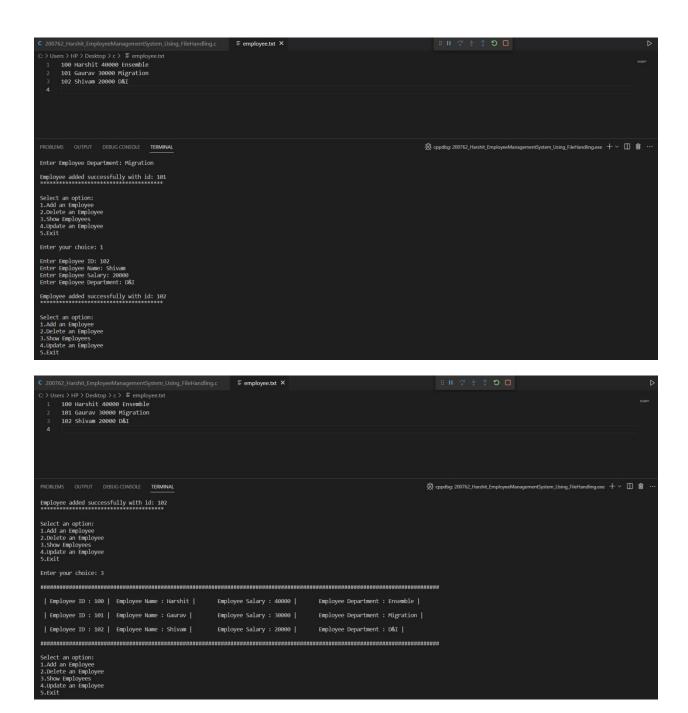
```
fprintf(tempFile, "%d %s %d %s\n", EmployeeID, EmployeeName,
EmployeeSalary, Department);
      }
   }
   fclose(fptr);
   fclose(tempFile);
   remove("C:\\Users\\HP\\Desktop\\c\\employee.txt");
   rename("C:\\Users\\HP\\Desktop\\c\\temp_employee.txt", "C:\\Users\\HP\\
Desktop\\c\\employee.txt");
   printf("\nEmployee id: %d deleted successfully\n", dlt_id);
   printf("*********************************
n");
}
void ShowEmployee(FILE *fptr)
{
   printf("\n");
######################\n\n");
   int EmployeeID;
   char EmployeeName[20];
   int EmployeeSalary;
   char Department[10];
   while (fscanf(fptr, "%d %s %d %s", &EmployeeID, EmployeeName, &EmployeeSalary,
Department) != EOF)
   {
      printf(" | Employee ID : %d | \t", EmployeeID);
      printf("Employee Name : %s | \t", EmployeeName);
      printf("Employee Salary : %d | \t", EmployeeSalary);
      printf("Employee Department : %s | \n\n", Department);
   }
void UpdateEmployee(FILE *fptr)
{
   int upd_id;
   printf("\nSelect id You want to update: ");
   scanf("%d", &upd_id);
   FILE *tempFile = fopen("C:\\Users\\HP\\Desktop\\c\\temp_employee.txt", "w");
   if (tempFile == NULL)
   {
      printf("Error!\n");
      exit(1);
   }
   int EmployeeID;
   char EmployeeName[20];
   int EmployeeSalary;
   char Department[10];
```

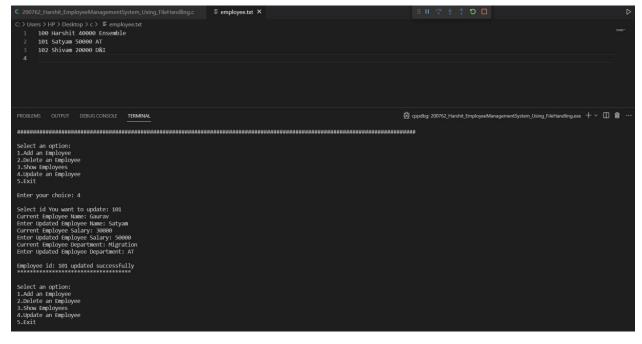
```
while (fscanf(fptr, "%d %s %d %s", &EmployeeID, EmployeeName, &EmployeeSalary,
Department) != EOF)
   {
       if (EmployeeID == upd_id)
          printf("Current Employee Name: %s\n", EmployeeName);
          printf("Enter Updated Employee Name: ");
          scanf("%s", EmployeeName);
          printf("Current Employee Salary: %d\n", EmployeeSalary);
          printf("Enter Updated Employee Salary: ");
          scanf("%d", &EmployeeSalary);
          printf("Current Employee Department: %s\n", Department);
          printf("Enter Updated Employee Department: ");
          scanf("%s", Department);
       }
       fprintf(tempFile, "%d %s %d %s\n", EmployeeID, EmployeeName,
EmployeeSalary, Department);
   }
   fclose(fptr);
   fclose(tempFile);
   remove("C:\\Users\\HP\\Desktop\\c\\employee.txt");
   rename("C:\\Users\\HP\\Desktop\\c\\temp_employee.txt", "C:\\Users\\HP\\
Desktop\\c\\employee.txt");
   printf("\nEmployee id: %d updated successfully\n", upd_id);
   }
int main()
   int ch;
   FILE *fptr;
   while (1)
       printf("\nSelect an option:\n");
       printf("1.Add an Employee\n");
       printf("2.Delete an Employee\n");
       printf("3.Show Employees\n");
       printf("4.Update an Employee\n");
       printf("5.Exit\n");
       printf("\nEnter your choice: ");
       scanf("%d", &ch);
       switch (ch)
       case 1:
          fptr = fopen("C:\\Users\\HP\\Desktop\\c\\employee.txt", "a");
          AddEmployee(fptr);
          fclose(fptr);
```

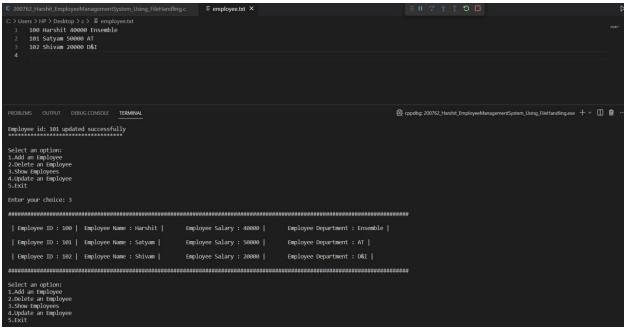
```
break;
        case 2:
            fptr = fopen("C:\\Users\\HP\\Desktop\\c\\employee.txt", "r");
            DeleteEmployee(fptr);
            break;
        case 3:
            fptr = fopen("C:\\Users\\HP\\Desktop\\c\\employee.txt", "r");
            if (fptr == NULL)
                printf("Error!\n");
                exit(1);
            ShowEmployee(fptr);
            fclose(fptr);
            break;
        case 4:
            fptr = fopen("C:\\Users\\HP\\Desktop\\c\\employee.txt", "r+");
            if (fptr == NULL)
                printf("Error!\n");
                exit(1);
            UpdateEmployee(fptr);
            break;
        case 5:
            printf("\nThank you! Have a nice day.\n");
            exit(0);
        default:
            printf("\nInvalid choice! Please select a valid option.\n");
        }
    }
    return 0;
}
```

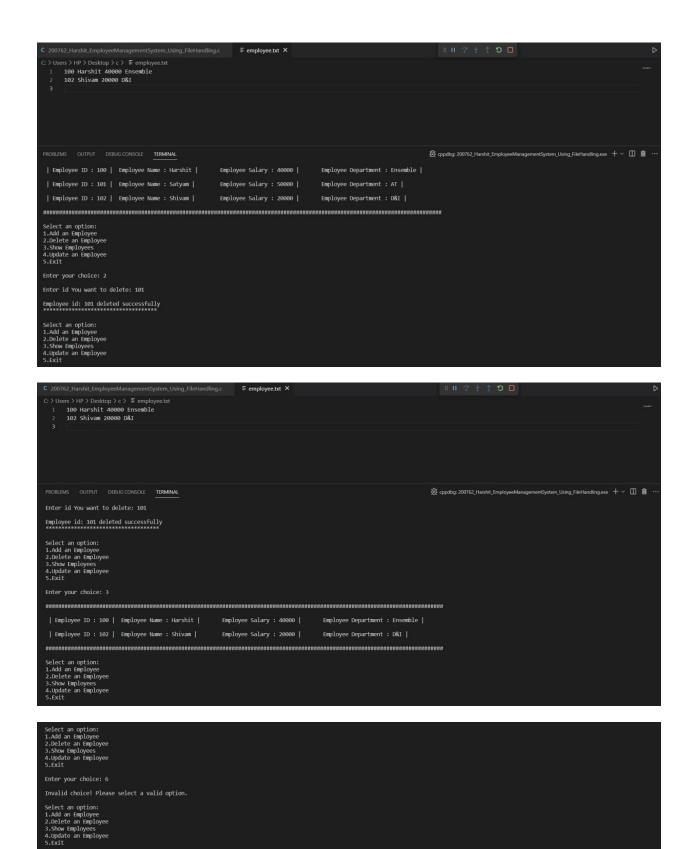
## **Output Screenshots:**











Enter your choice: 5

Thank you! Have a nice day.
PS C:\Users\HP>