68/70

Name:- Khushboo Tiwary
Course:- BCA (Sem-I)
Roll No:- 16168
Subject:- Programming in C
Date :- 28.01.17

Q:- Write a menu driven program to create a binary file for add, display, search, update and delete with local variable declaration.

=>

```
#include<stdio.h>
#include<conio.h>
 struct student
{
   int roll, age;
   char nm[20];
};
 void create(struct student *p);
 void add(struct student *p);
 void display(struct student *p);
 void search(struct student *p);
 void update(struct student *p);
 void delete(struct student *p);

 void main()
{
   int ch=0;
   struct student s;
   clrscr();
```

```
while (ch!=7)
{
    clrscr();
    gotoxy(35,3); printf("MAIN MENU");
    gotoxy(30,4); printf("----------");
    gotoxy(30,5); printf("1. Create a File");
    gotoxy(30,6); printf("2. Add a Record");
    gotoxy(30,7); printf("3. Display all Records");
    gotoxy(30,8); printf("4. Search a Record");
    gotoxy(30,9); printf("5. Update a Record");
    gotoxy(30,10); printf("6. Delete a Record");
    gotoxy(30,11); printf("7. EXIT");
    gotoxy(30,12); printf("Enter your choice:");
    gotoxy(30,13); scanf("%d",&ch);

    switch(ch)
    {
      case 1: create(&s);
              break;
      case 2: add(&s);
              break;
      case 3: display(&s);
              break;
      case 4: search(&s);
              break;
      case 5: update(&s);
              break;
      case 6: delete(&s);
              break;
      case 7: gotoxy(30,14); printf("Thank you");
              break;
```

```
        default: gotoxy(30,15); printf("Invalid choice");
                 break;
      }
      getch();
   }
   getch();
}

void create(struct student *p)
{
    FILE *fp;
    fp = fopen("Record.dat", "wb");
    printf("Enter the roll, name and age:\n");
    scanf("%d %s %d", &p->roll, p->nm, &p->age);
    fwrite((char *)p, sizeof(*p), 1, fp);
    fclose(fp);
}

void add(struct student *p)
{   char ans = 'y';
    FILE *fp;
    fp = fopen("Record.dat", "ab");
    while(ans=='y' || ans=='Y')
    {
     printf("Enter the roll, name and age:\n");
     scanf("%d %s %d", &p->roll, p->nm, &p->age);
     fwrite((char *)p, sizeof(*p), 1, fp);
     printf("Do you want to add more record:[y/n]\n");
     ans = getche();
    }
    fclose(fp);
}
```

```
void display( struct student *p)
{
    FILE *fp;
    fp = fopen("Record.dat","rb");
    while(fread(p, sizeof(*p), 1, fp))
    {
        printf("%d\t%s\t%d\n", p->roll, p->nm, p->age);
    }
    fclose(fp);
}

void search( struct student *p)
{
    FILE *fp;
    int n, c=0;
    fp = fopen("Record.dat","rb");
    printf("Enter the roll which you want to search:\n");
    scanf("%d", &n);
    while(fread(p, sizeof(*p), 1, fp))
    {
        if(p->roll==n)
        {
            printf("%d\t%s\t%d\n", p->roll, p->nm, p->age);
        }
        else
        {
            c++;
        }
    }
```

Name: Khushboo Tiwary

```
    else
    {
       printf("Record not updated");
    }

 fclose(fp);
 fclose(fp1);
 remove("Record.dat");
 rename("Temp.dat", "Record.dat");
}

void delete( struct student *p)
{
   FILE *fp, *fp1;
   int n, c=0;
   fp = fopen("Record.dat", "rb");
   fp1 = fopen("Temp.dat", "wb");
   printf("Enter the roll which you want to delete:\n");
   scanf("%d", &n);
   while(fread(p, sizeof(*p), 1, fp)
   {
       if(p->roll != n)
       {
          fwrite((char *)p, sizeof(*p), 1, fp1);
       }
       else
       {
          c++;
       }
   }
```

```
    if(c==0)
  {
    printf("Record not found");
  }
}

void update(struct studen *p)
{
   FILE *fp, *fp1;
    int n, c=0;
   fp = fopen("Record.dat", "rb");
   fp1 = fopen("Temp.dat", "wb");
   printf("Enter the roll which you want to update:\n");
   scanf("%d", &n);
   while(fread(p, sizeof(*p), 1, fp)
   {
     if(p->roll==n)
     {
       c++;
       printf("Enter new roll, name and age:\n");
       scanf("%d %s %d", &p->roll, p->nm, &p->age);
       fwrite((char *)p, sizeof(*p), 1, fp1);
     }
     else
     {
       fwrite((char *)p, sizeof(*p), 1, fp1);
     }
   }
     if(c!=0)
   {
     printf("Record updated");
   }
```

Name: Khushboo Tiwary

```
    if (c==0)
    {
      printf(" Record not found");
    }
    fclose(fp);
    fclose(fp1);
    remove("Record.dat");
    rename("Temp.dat", "Record.dat");
}
```