

//Creation of binary file

```
#include<stdio.h>
struct tag {
    char name[20];
    int roll;
};
int main()
{
    struct tag stdrec;
    int n=5,i;
    FILE *fp;
    fp=fopen("in.txt","wb");
    for(i=0;i<n;i++)
    {
        printf("Roll Number:");scanf("%d",&stdrec.roll);
        printf("Name:");scanf("%s",stdrec.name);
        fwrite(&stdrec,1,sizeof(stdrec),fp);
    }
    fclose(fp);
    return 0;
}
```

//Display (Reading) of binary file contents

```
#include<stdio.h>
struct tag {
    char name[20];
    int roll;
};
int main()
{
    struct tag stdrec;
    int n=5,i;
    FILE *fp;
    fp=fopen("in.txt","rb");
    while(fread(&stdrec,1,sizeof(stdrec),fp)!=0)
    {
        printf("Roll Number:%d\n",stdrec.roll);
        printf("Name:%s\n",stdrec.name);
        //fwrite(&stdrec,1,sizeof(stdrec),fp);
    }
    fclose(fp);
    return 0;
}
```

//functions to modify/display the contents of binary file

```
#include<stdio.h>
struct tag {
    char name[20];
    int roll;
}stdrec;
int modify(int,FILE *);
void display(FILE *);
int main()
{ int t;FILE *fp;
    printf("Display of File Contents before
    modification:\n");
```

```
display(fp);
getchar();
printf("\nEnter Roll No for record modification : ");
scanf("%d",&t);
if(modify(t,fp))
{
    printf("\nDisplay of File Content after
    modification:\n");
    display(fp);
}
else
    printf("Roll No. not found");
return 0;
}
void display(FILE *fp1)
{
    fp1=fopen("in.txt","rb");
    while(fread(&stdrec,1,sizeof(stdrec),fp1)!=0)
    {
        printf("Roll Number: %d\n",stdrec.roll);
        printf("Name: %s\n",stdrec.name);
    }
    fclose(fp1);
}
int modify(int rollno,FILE *fp)
{
    int found=0;
    fp=fopen("in.txt","r+");
    while(fread(&stdrec,1,sizeof(stdrec),fp)!=0)
    {
        if(stdrec.roll==rollno)
        {
            found=1;
            printf("New Name:");scanf("%s",stdrec.name);
            stdrec.roll=rollno;
            printf("Before mod:%ld",ftell(fp));
            fseek(fp,-sizeof(stdrec),SEEK_CUR);
            printf("after mod:%ld",ftell(fp));
            fwrite(&stdrec,1,sizeof(stdrec),fp);
            fclose(fp);
            break;
        }
    }
    if(found==1)
        return 1;
    else
        return 0;
}
```

Discussed Linux commands

mkdir (make directory), **ls** (listing of directory contents- **-l** for long format), **cat** (to display file contents), **cd** (change directory), **pwd** (print working directory), use of redirector symbol '**>**' e.g. cat f1 f2> f3, **who** (to list active user currently logged on unix server), **whoami** (to know the userid of currently logged user itself) **cp** (copy one source file contents to target file), **mv** (to move source file contents to target file)