The concepts and the functionalities of the Cricket Score Sheet project. It's time to try it on our own.

Program:

```
void date();//to store todays date//
void printt();//for printing the output//
void filewrite();//for writing to the file//
void fileread();//for accessing from the file//
void fileopen(char);
void limitinput(int);
int limitedinput(int);
FILE *newfile,*filelist;
char filenamewithdirectory[50];//to pass the filename with its directory location//
char output[100];
void newscoresheet()
{
   system("color f4");
   int j,ln,number;
   char text[50],ch;
   system("cls");
   locate(20,8);
   char filename[20],array[100];
   char extension[]=".txt";
   char filenamewithdirectory[]="Files//";
   char filenamecheck[20];
   char filenamecheckvar;
   int i=0,flag=1,n=15;
   system("cls");
```

```
initializeconsolehandles();
printt();
flag=0;
while(1)
{
   if(flag==0)
   {
      fflush(stdin);
      locate(13,0);
      fflush(stdin);
      limitinput(n);
      strcpy(gamedetailA.competition,output);
      flag=1;
      n=20;
   }
   if (flag==1)
   {
      locate(42,0);
      limitinput(n);
      strcpy(gamedetailA.venue,output);
      fflush(stdin);
      flag=2;
      n=10;
   }
   if(flag==2)
   {
```

```
    locate(15,2);
    limitinput(n);
    strcpy(gamedetailA.matchbetween,output);
    fflush(stdin);
    flag=3;
    n=10;
}
if(flag==3)
{
    locate(44,2);
    limitinput(n);
    strcpy(gamedetailA.versus,output);
    fflush(stdin);
    flag=4;
    n=10;
}
if(flag==4)
{
    locate(13,4);
    limitinput(n);
    strcpy(gamedetailA.tosswonby,output);
    fflush(stdin);
    flag=5;
    n=7;
}
if(flag==5)
```

```
{
   locate(47,4);
   limitinput(n);
   strcpy(gamedetailA.electedto,output);
   fflush(stdin);
   flag=6;
   n=3;
}
if(flag==6)
{
   locate(11,6);
   number=limitedinput(n);
   gamedetailA.inningsof=number;
   fflush(stdin);
   flag=7;
   n=10;
}
if(flag==7)
{
   locate(53,6);
   printf(" T to enter today's date");
   locate(43,6);
   limitinput(n);
   if(output[0]=='t'||output[0]=='T')
   {
      date();
```

```
        locate(43,6);
        printf("        %s              ",gamedetailA.date);
    }
    else
    {
        strcpy(gamedetailA.date,output);
        locate(43,6);
        if(strlen(gamedetailA.date)<2)
        printf("                                ");
        else
        printf("        %s                ",gamedetailA.date);

    }
    fflush(stdin);
    flag=8;
    n=15;
}
if(flag==8)
{
    locate(12,10);
    for (i=0; i<11; i++)
    {
        limitinput(n);
        strcpy(teamA[i].batsmanname,output);
        locate(12,11+i);
    }
```

```
    flag=9;
}
if(flag==9)
{
    locate(12,24);
    for (i=0; i<8; i++)
    {
        limitinput(n);
        strcpy(teamA[i].bowler,output);
        locate(12,25+i);
    }
    flag=80;
}
if (flag==80)
{
    locate(36,33);
    skip:
    printf("Enter e to edit or c to continue");
    ch=getch();
    if(ch=='e'||ch=='E')
    {
        flag=0;
         locate(36,33);
        printf("                                                                                ");

    }
```

```
            else if(ch=='c'||ch=='C')
            {
               locate(36,33);
               printf("                                                                    ");
               locate(14,20);
               final();
               filewrite();
            }
            else
            {
              locate(36,33);
               printf("                                                                    ");
               flag=80;
            }
        }
    }
}
void printt()
{

    int j,l,i;
    locate(0,0);
    printf("%ccompetition:%s",179,gamedetailA.competition);
    locate(35,0);
    printf("%cVenue:%s",179,gamedetailA.venue);
    locate(0,1);
```

```
for(i=0; i<79; i++)
   printf("%c",205);
locate(0,2);
printf("%cMatch Between:%s",179,gamedetailA.matchbetween);
locate(35,2);
printf("%cVersus:%s",179,gamedetailA.versus);
locate(0,3);
for(i=0; i<79; i++)
   printf("%c",205);
locate(0,4);
printf("%cToss won by:%s",179,gamedetailA.tosswonby);
locate(35,4);
printf("%cElected To:%s",179,gamedetailA.electedto);
locate(0,5);
for(i=0; i<79; i++)
   printf("%c",205);
locate(35,0);
for (i=0; i<33; i++)
{
   locate(34,i);
   printf("%c",182);
}
locate(0,6);
printf("%cInning Of:%d",179,gamedetailA.inningsof);
locate(35,6);
printf("%cDate:%s",179,gamedetailA.date);
```

```
locate(0,7);
for(i=0; i<79; i++)
   printf("%c",205);
locate(0,21);
for(i=0; i<79; i++)
   printf("%c",205);
locate(0,9);
for(i=0; i<79; i++)
   printf("%c",205);
locate(5,8);
printf("Batsmanname");
locate(0,10);
for(i=0; i<11; i++)
   printf("%cBatsman %d:%s\n",179,i+1,teamA[i].batsmanname);
locate(36,8);
printf("%cTotoal runs",179);
for(i=0; i<11; i++)
{
   locate(40,9+(i+1));
   printf("%d\n",teamA[i].totalruns);
}

locate(5,22);
printf("Bowlers");
locate(0,23);
for (i=0; i<79; i++)
```

```
    printf("%c",205);
for(i=0; i<8; i++)
{
    locate(0,23+(i+1));
    printf("%cBowler %d:%s\n",179,i+1,teamA[i].bowler);
}

locate(35,22);
printf("overs");
locate(42,22);
printf("Maidens");
locate(50,22);
printf("Economy");
locate(58,22);
printf("No balls");
locate(68,22);
printf("BTICO");
locate(75,22);
printf("Runs");
locate(62,8);
printf("_4s");
locate(72,8);
printf("_6s");
locate(0,32);
for (i=0; i<79; i++)
    printf("%c",205);
```

```
locate(61,10);
for(i=0; i<11; i++)
{
   printf("%c",179);
   locate(61,10+(i+1));
}
locate(63,9);
for(i=0;i<11;i++)
{
   locate(63,9+(i+1));
printf("%d",teamA[i]._4s);
}
locate(73,9);
for(i=0;i<11;i++)
{
   locate(73,9+(i+1));
printf("%d",teamA[i]._6s);
}
locate(71,10);
for(i=0; i<11; i++)
{
   printf("%c",179);
   locate(71,10+(i+1));
}
locate(49,10);
for(i=0; i<11; i++)
```

```
{
   printf("%c",179);
   locate(49,10+(i+1));
}
locate(38,23);
for(i=0; i<8; i++)
{
   locate(38,23+(i+1));
   printf("%d\n",bowlingteamA[i].overs);
}
locate(47,23);
for(i=0; i<8; i++)
{
   locate(47,23+(i+1));
   printf("%d\n",bowlingteamA[i].maidens);
}
locate(55,23);
for(i=0; i<8; i++)
{
   locate(55,23+(i+1));
   printf("%.2f\n",bowlingteamA[i].average);
}
locate(62,23);
for(i=0; i<8; i++)
{
   locate(62,23+(i+1));
```

```
        printf("%d\n",bowlingteamA[i].noballs);
    }
    locate(70,23);
    for(i=0; i<8; i++)
    {
        locate(70,23+(i+1));
        printf("%d\n",bowlingteamA[i].ballthrownincurrentover);
    }
    locate(78,23);
    for(i=0; i<8; i++)
    {
        locate(78,23+(i+1));
        printf("%d\n",bowlingteamA[i].runs);
    }
    locate(0,40);
    for(i=0;i<79;i++)
    {
        printf("%c",205);
    }
    return;


}
void filewrite()
{
    fwrite(&gamedetailA,sizeof(gamedetailA),1,newfile);
```

```
    fwrite(&teamA,sizeof(teamA),11,newfile);
    fwrite(&bowlingteamA,sizeof(bowlingteamA),8,newfile);

}

void fileopen(char ch1)
{
    int j,ln;
    char text[50],ch;
    system("cls");
    locate(20,8);
    char filename[20],array[50];
    char extension[]=".txt";
    char filenamewithdirectory[]="Files//";
    char filenamecheck[20];
    char filenamecheckvar;
    int i=0,flag=1,n=15;
    if(ch1=='1')
    {
        filelist=fopen("Files//filelist.txt","a+");
        if(filelist==NULL)
        {
            printf(" File Listing Error...");
            exit(1);
        }
        while(flag==1)
```

```
{
   if (flag==1)
   {
      printf("\nPlease enter the new file name:");
      scanf(" %[^\n]",filename);
      i=0;
   }
   rewind(filelist);
   while(filenamecheckvar!=EOF)
   {
      filenamecheckvar=fgetc(filelist);
      filenamecheck[i]=filenamecheckvar;
      if(filenamecheckvar=='\n')
      {
         filenamecheck[i]='\0';
         i=-1;
         if(strcmp(filenamecheck,filename)==0)
         {
            printf("Filename already exists.Please give new filename:");
            flag=1;
            break;
         }
      }
      i++;
      flag=0;
   }
```

```
    }
    fseek(filelist,0,SEEK_END);
    fprintf(filelist,"%s",filename);
    fprintf(filelist,"\n");
    fclose(filelist);
    strcat(filename,extension);
    strcat(filenamewithdirectory,filename);
    newfile=fopen(filenamewithdirectory,"w");
    if(newfile==NULL)
       printf("Error...");
    printf("Creating file...\n");
    Sleep(3000);
    printf("File Created.");
    Sleep(1000);
    newscoresheet();
}
if(ch1=='2')
{
    printf("Enter the name of the existing file to open");
    scanf(" %[^\n]",filename);
    strcat(filename,extension);
    strcat(filenamewithdirectory,filename);
    newfile=fopen(filenamewithdirectory,"r");
    if(newfile==NULL)
    {
       system("cls");
```

```
            printf("Error...no such existing file");
            exit(0);
        }
        system("cls");
        fread(&gamedetailA,sizeof(gamedetailA),1,newfile);
        fread(&teamA,sizeof(teamA),11,newfile);
        fread(&bowlingteamA,sizeof(bowlingteamA),8,newfile);
        printt();
        getch();
        system("cls");
        main();
    }

}

void date ( )
{
    time_t now;
    struct tm *tm_now;
    char buff[BUFSIZ];
    now = time ( NULL );
    tm_now = localtime ( &now );
    strftime ( buff, sizeof buff, "%a %d %m %Y", tm_now );
    strcpy(gamedetailA.date,buff);

}
```

```
void limitinput(int n)
{
   int i,j;
   char array[100];
   for(i=0;; i++)
   {
      if(i>=n)
         array[i]=getch();
      else
         array[i]=getche();
      if(array[i]=='\b')
      {
         if(i>(n-1))
            printf("'\b \b");
         else
            printf(" \b");
         if(i>=n)
            i=n-1-1;
         else
         {
            for(j=1;; j++)
            {
               if(i==n-j)
               {
                  if(i==0)
                     i=-1;
```

```
                    else
                        i=n-(j+1)-1;
                    break;
                }
            }
        }
    }
    if(array[i]=='\r')
        break;
}
int number=0;
for(i=0; i!=n; i++)
{
    if(array[i]=='\r')
    {
        output[i]='\0';
        break;
    }
    output[i]=array[i];
}
}
int limitedinput(int n)
{
    int a,i,j,array[100];
start:
locate(11,6);
```

```
for(i=0;; i++)
{
   if(i>=n)
      array[i]=getch();
   else
      array[i]=getche();
   if(array[i]=='\b')
   {
      if(i>(n-1))
         printf("\b \b");
      else
         printf(" \b");
      if(i>=n)
         i=n-1-1;
      else
      {
         for(j=1;; j++)
         {
            if(i==n-j)
            {
               if(i==0)
                  i=-1;
               else
                  i=n-(j+1)-1;
               break;
            }
```

```
            }
        }
    }
    if(array[i]=='\r')
        break;
}
int number=0;
for(i=0; i!=n; i++)
{
    if(array[i]=='\r')
        break;
    if(isdigit(array[i])!=0)
    {
        (int) array[i];
        number=number*10+(array[i]-48);
    }
    else
    {
        locate(15,6);
        printf("  Invalid input.");
        goto start;
    }
}
locate(15,6);
printf("                  ");
return number;
```

}