Name : Rapariya Dhruv Dineshbhai

Div : B

Roll No : 3162

Subject : SS (Practical)

Q-1

```
#include<stdio.h>
#include<conio.h>
#include<stdlib.h>
#include<String.h>

struct Student{
   char name[10];
   int rollno;
   float marks;
};
int i;
FILE *file;
char *token;
struct Student student1[2];

void WriteInFile()
{
   file = fopen("C:\\TURBOC3\\SS\\students.txt","w");

   if(file == NULL)
   {
   printf("Error opening the file\n");
```

```
    return;
    }
    for(i=0;i<2;i++)
    {
    fprintf(file,"%s,%d,%2f\n",student1[i].name,student1[i].rollno,student1[i].marks);
    }
    fclose(file);
    printf("\nData Written In File Successfully\n");
}

void ReadFromFile()
{
    char line[100];
    file = fopen("C:\\TURBOC3\\SS\\students.txt","r");
    if(file == NULL)
    {
    printf("Error opening the file\n");
    return;
    }

    printf("\nFile Data\n");
    printf("\n| Name     | Roll No    | Marks   |\n");
    printf("|----------|------------|---------|\n");
    for(i=0;i<2;i++)
    {
    while (fgets(line,sizeof(line),file)!=NULL)
    {
       token = strtok(line,",");
       if(token!=NULL)
       strcpy(student1[i].name,token);
```

```
        token = strtok(NULL,",");
        if(token!=NULL)
        student1[i].rollno = atoi(token);

        token = strtok(NULL,",");
        if(token!=NULL)
        student1[i].marks = atof(token);

        printf("|%-10s|%-12d|%-9.2f|\n",student1[i].name,student1[i].rollno,student1[i].marks);
    }
    }
    fclose(file);
}

void main()
{
    clrscr();
    printf("\n3162 Rapariya Dhruv D.\n");
    for(i=0;i<2;i++)
    {
        printf("Enter Student Name : ");
        scanf("%s",&student1[i].name);

        printf("Enter Roll No : ");
        scanf("%d",&student1[i].rollno);

        printf("Enter Marks : ");
        scanf("%f",&student1[i].marks);
    }

    WriteInFile();
```

```
    ReadFromFile();
    getch();
}
```

```
3162 Rapariya Dhruv D.
Enter Student Name : Dhruv
Enter Roll No : 3162
Enter Marks : 78
Enter Student Name : Hiren
Enter Roll No : 3181
Enter Marks : 90

Data Written In File Successfully

File Data

| Name     | Roll No    | Marks    |
|----------|------------|----------|
|Dhruv     |3162        |78.00     |
|Hiren     |3181        |90.00     |
```

Q-2

```
#include<stdio.h>
#include<conio.h>
#include<stdlib.h>

struct Student{
    char name[10];
    int rollno;
    float marks;
    char grade;
};

FILE *file;
struct Student student1;
```

```
void WriteInFile()
{
   file = fopen("C:\\TURBOC3\\SS\\report.txt","w");

   if(file == NULL)
   {
   printf("Error opening the file\n");
   return;
   }

   fprintf(file,"-----Student's Report Card-----");
   fprintf(file,"\nName : %s",student1.name);
   fprintf(file,"\nRoll No : %d",student1.rollno);
   fprintf(file,"\nMarks : %f",student1.marks);

   if(student1.marks >= 80 && student1.marks <= 100)
   {
   student1.grade = 'A';
   }
   else if(student1.marks >= 70 && student1.marks <= 79)
   {
   student1.grade = 'B';
   }
   else if(student1.marks >= 50 && student1.marks <= 69)
   {
   student1.grade = 'C';
   }
   else if(student1.marks >= 33 && student1.marks <= 49)
```

```
    {
    student1.grade = 'D';
    }
    else if(student1.marks <33 )
    {
    student1.grade = 'F';
    }
    fprintf(file,"\nGrade : %c",student1.grade);

    fclose(file);
    printf("\nData Written In File Successfully\n");
}

void ReadFromFile()
{
    char line[100];
    file = fopen("C:\\TURBOC3\\SS\\report.txt","r");
    if(file == NULL)
    {
    printf("Error opening the file\n");
    return;
    }

    printf("\nFile Data\n");
    while (fgets(line,sizeof(line),file)!=NULL)
    {
       printf("%s",line);
    }
```

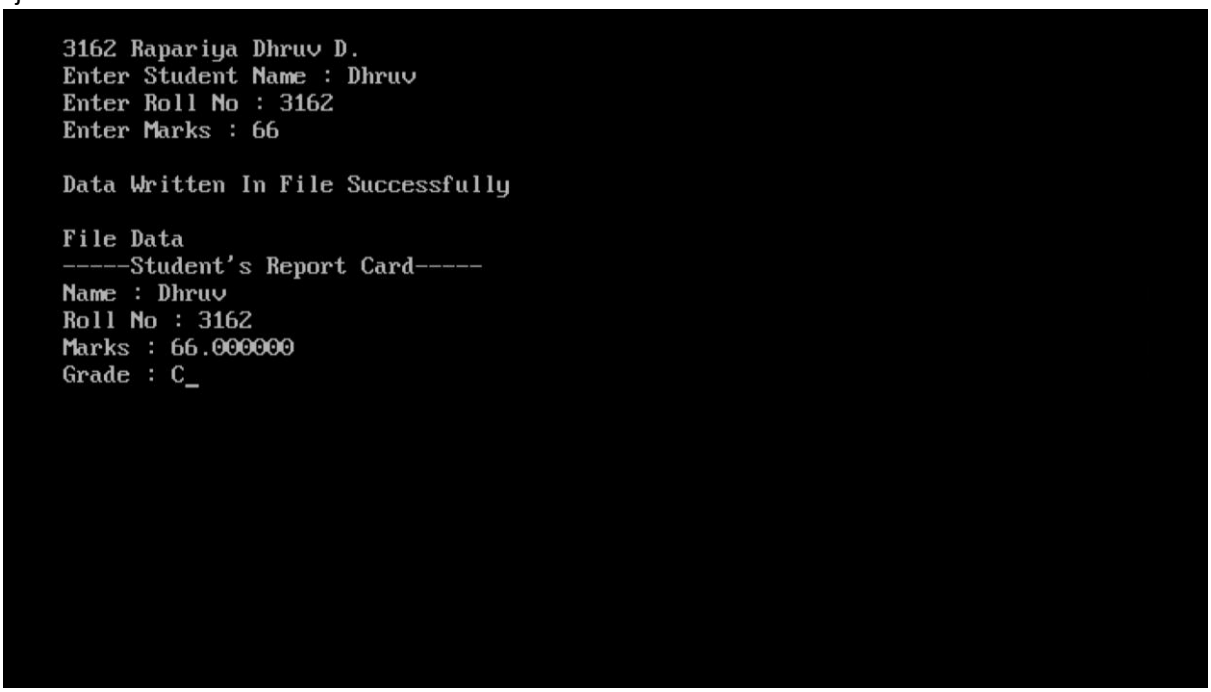
```
}

void main()
{
   clrscr();
   printf("\n3162 Rapariya Dhruv D.\n");
   printf("Enter Student Name : ");
   scanf("%s",&student1.name);

   printf("Enter Roll No : ");
   scanf("%d",&student1.rollno);

   printf("Enter Marks : ");
   scanf("%f",&student1.marks);

   WriteInFile();
   ReadFromFile();
   getch();
}
```



Q-3

```
#include<stdio.h>
#include<conio.h>
#include<stdlib.h>
#include<String.h>

struct Employee{
   char name[10];
   int employee_id;
   float salary;
};
int i;
FILE *file;
char *token;
struct Employee employee[2];

void WriteInFile()
{
   file = fopen("C:\\TURBOC3\\SS\\employees.txt","w");

   if(file == NULL)
   {
   printf("Error opening the file\n");
   return;
   }
   for(i=0;i<2;i++)
   {
```

```
   fprintf(file,"%s,%d,%0.2f\n",employee[i].name,employee[i].employee_id,employee[i].sala
ry);
   }
   fclose(file);
   printf("\nData Written In File Successfully\n");
}

void ReadFromFile()
{
   char line[100];
   file = fopen("C:\\TURBOC3\\SS\\employees.txt","r");
   if(file == NULL)
   {
   printf("Error opening the file\n");
   return;
   }

   printf("\nFile Data\n");
   printf("\n| Name     | Employee id | Salary   |\n");
   printf("|----------|-------------|----------|\n");
   for(i=0;i<2;i++)
   {
   while (fgets(line,sizeof(line),file)!=NULL)
   {
      token = strtok(line,",");
      if(token!=NULL)
      strcpy(employee[i].name,token);

      token = strtok(NULL,",");
      if(token!=NULL)
```

```
        employee[i].employee_id = atoi(token);

        token = strtok(NULL,",");
        if(token!=NULL)
        employee[i].salary = atof(token);

        printf("|%-10s|%-13d|%-
10.2f|\n",employee[i].name,employee[i].employee_id,employee[i].salary);
    }
    }
    fclose(file);
}

void main()
{
    clrscr();
    printf("\n3162 Rapariya Dhruv D.\n");
    for(i=0;i<2;i++)
    {
    printf("Enter Employee Name : ");
    scanf("%s",&employee[i].name);

    printf("Enter Employee id : ");
    scanf("%d",&employee[i].employee_id);

    printf("Enter Salary : ");
    scanf("%f",&employee[i].salary);
    }

    WriteInFile();
```

```
    ReadFromFile();
    getch();
}
```

```
3162 Rapariya Dhruv D.
Enter Employee Name : Dhruv
Enter Employee id : 101
Enter Salary : 12000
Enter Employee Name : Hiren
Enter Employee id : 102
Enter Salary : 15000

Data Written In File Successfully

File Data

| Name     | Employee id | Salary   |
|----------|-------------|----------|
|Dhruv     |101          |12000.00  |
|Hiren     |102          |15000.00  |
```

Q-4

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

struct Employee{
    char name[10];
    int employee_id;
    float salary;
};
int i;
FILE *file;
```

```
char *token;
struct Employee employee[2];
// struct Employee employee;

void WriteInFile()
{
   file = fopen("C:\\TURBOC3\\SS\\EMPLOYEE.txt","w");

   if(file == NULL)
   {
   printf("Error opening the file\n");
   return;
   }
   for(i=0;i<2;i++)
   {
   printf("Enter Updated Salary of %s : ",employee[i].name);
   scanf("%f",&employee[i].salary);
   fprintf(file,"%s,%d,%0.2f\n",employee[i].name,employee[i].employee_id,employee[i].sala
ry);
   }
   fclose(file);
   printf("\nData Written In File Successfully\n");
}

void ReadFromFile()
{
   char line[100];
   file = fopen("C:\\TURBOC3\\SS\\EMPLOYEE.txt","r");
   if(file == NULL)
   {
```

```
   printf("Error opening the file\n");
   return;
   }

   printf("\nFile Data\n");

   for(i=0;i<2;i++)
   {
   while (fgets(line,sizeof(line),file)!=NULL)
   {
      token = strtok(line,",");
      //printf("token %s",token);
      if(token!=NULL)
      strcpy(employee[i].name,token);

      token = strtok(NULL,",");
      if(token!=NULL)
      employee[i].employee_id = atoi(token);

      token = strtok(NULL,",");
      if(token!=NULL)
      employee[i].salary = atof(token);

      printf("%s %d
%0.2f\n",employee[i].name,employee[i].employee_id,employee[i].salary);
   }
   }
   fclose(file);
}
```

```
void main()
{
   clrscr();
   printf("\n3162 Rapariya Dhruv D.\n");

   ReadFromFile();
   WriteInFile();
   getch();
}
```

```
3162 Rapariya Dhruv D.

File Data
Dhruv 101 12000.00
Hiren 102 15000.00
Enter Updated Salary of Hiren : 13000
Enter Updated Salary of   : 16000

Data Written In File Successfully
```

Q-5

```
#include<stdio.h>
#include<conio.h>
#include<stdlib.h>
#include<String.h>

struct City{
```

```
   char name[10];
   float temperature;
};
int i,n;
FILE *file;
char *token;
struct City city[10];

void WriteInFile()
{
   file = fopen("C:\\TURBOC3\\SS\\City.txt","w");

   if(file == NULL)
   {
   printf("Error opening the file\n");
   return;
   }
   for(i=0;i<n;i++)
   {
   fprintf(file,"%s,%0.2f\n",city[i].name,city[i].temperature);
   }
   fclose(file);
   printf("\nData Written In File Successfully\n");
}

void ReadFromFile()
{
   char line[100];
   file = fopen("C:\\TURBOC3\\SS\\City.txt","r");
```

```
   if(file == NULL)
   {
   printf("Error opening the file\n");
   return;
   }

   printf("\nFile Data\n");
   printf("\n| Name     | Temperature |\n");
   printf("|----------|-------------|\n");
   for(i=0;i<n;i++)
   {
   while (fgets(line,sizeof(line),file)!=NULL)
   {
      token = strtok(line,",");
      if(token!=NULL)
      strcpy(city[i].name,token);

      token = strtok(NULL,",");
      if(token!=NULL)
      city[i].temperature = atof(token);

      printf("|%-10s|%-13.2f|\n",city[i].name,city[i].temperature);
   }
   }
   fclose(file);
}

void main()
{
```

```
    clrscr();
    printf("\n3162 Rapariya Dhruv D.\n");
    printf("\nEnter Number of cities : ");
    scanf("%d",&n);
    for(i=0;i<n;i++)
    {
    printf("Enter City Name : ");
    scanf("%s",&city[i].name);

    printf("Enter Temperature : ");
    scanf("%f",&city[i].temperature);
    }

    WriteInFile();
    ReadFromFile();
    getch();
}
```

```
3162 Rapariya Dhruv D.

Enter Number of cities : 3
Enter City Name : surat
Enter Temperature : 32
Enter City Name : bharuch
Enter Temperature : 28
Enter City Name : rajkot
Enter Temperature : 29

Data Written In File Successfully

File Data

| Name     | Temperature |
|----------|-------------|
|surat     |32.00        |
|bharuch   |28.00        |
|rajkot    |29.00        |
_
```

Q-6

```
#include<stdio.h>
#include<conio.h>
void main()
{
   FILE *fp;
   char c;
   int w=1,ch=0,i=1;
   clrscr();
   printf("\n3162 Rapariya Dhruv D.\n");
   fp=fopen("C:\\TURBOC3\\SS\\file1.txt","r");
   //printf("\n3162 Rapariya Dhruv D.\n");
   while((c=getc(fp))!=EOF)
   {
      ch++;
      if(c==' ')
      {
         w++;
      }
      if(c=='\n')
      {
         i++;
      w++;
      }
   }
   printf("\nchar:- %d",ch);
   printf("\nline is:- %d",i);
```

```
    printf("\nWord is:- %d",w);
    fclose(fp);
    getch();
}
```