STRUCTURES:

```
PS C:\Users\Aman Morghade\OneDrive\Documents\DSA_CoEP\LabWork1\structures> .\a.exe
Enter the number of students: 2
Enter roll number: 24
Enter first name: Aman
Enter middle name: Bipin
Enter last name: Morghade
Enter gender (Male/Female): Male
Enter date of birth (DD MM YYYY): 11 08 2005
Enter marks in English: 88
Enter marks in Mathematics: 95
Enter marks in Computer Science: 95
Enter roll number: 545
Enter first name: a
Enter middle name: b
Enter last name: c
Enter gender (Male/Female): f
Enter date of birth (DD MM YYYY): 22 07 2005
Enter marks in English: 87
Enter marks in Mathematics: 95
Enter marks in Computer Science: 95

Enter the first name of the student to search: a
Enter the middle name of the student to search: b
Enter the last name of the student to search: c

Roll Number: 545
Name: a b c
Gender: f
Date of Birth: 22/07/2005
Marks: English: 87.00, Mathematics: 95.00, Computer Science: 95.00
Average Marks: 92.33

Students with less than 40% aggregate marks:
PS C:\Users\Aman Morghade\OneDrive\Documents\DSA_CoEP\LabWork1\structures>
```

```
PS C:\Users\Aman Morghade\OneDrive\Documents\DSA_CoEP\LabWork1\structures> gcc .\Qs3.c
PS C:\Users\Aman Morghade\OneDrive\Documents\DSA_CoEP\LabWork1\structures> .\a.exe
Enter the number of hotels: 2

Enter details for hotel 1:
Name: Blossom
Address: ABC
Grade: A
Number of rooms: 230
Room charges: 2300

Enter details for hotel 2:
Name: The Inn
Address: XYZ
Grade: C
Number of rooms: 100
Room charges: 1000

Enter the grade to search for hotels: A
A:
- Blossom

Enter the maximum room charges 10000
Hotels with room charges less than 10000:
- Blossom
- The Inn
PS C:\Users\Aman Morghade\OneDrive\Documents\DSA_CoEP\LabWork1\structures>
```

```
PS C:\Users\Aman Morghade\OneDrive\Documents\DSA_CoEP\LabWork1\structures> gcc .\Qs4.c
PS C:\Users\Aman Morghade\OneDrive\Documents\DSA_CoEP\LabWork1\structures> .\a.exe
Enter First Time (Hr Min Sec): 10 15 50
Enter Second Time (Hr Min Sec): 18 57 04
GOOD DAY
GOOD DAY
GOOD DAY
GOOD DAY
GOOD DAY
GOOD DAY
GOOD DAY
GOOD DAY
GOOD DAY
```

```
PS C:\Users\Aman Morghade\OneDrive\Documents\DSA_CoEP\LabWork1\structures> gcc .\Qs5.c
PS C:\Users\Aman Morghade\OneDrive\Documents\DSA_CoEP\LabWork1\structures> .\a.exe
First Fraction (Numerator Denominator): 5 7
Second Fraction (Numerator Denominator): 14 15
-1
PS C:\Users\Aman Morghade\OneDrive\Documents\DSA_CoEP\LabWork1\structures> .\a.exe
First Fraction (Numerator Denominator): 7 5
Second Fraction (Numerator Denominator): 1 7
1
PS C:\Users\Aman Morghade\OneDrive\Documents\DSA_CoEP\LabWork1\structures> .\a.exe
First Fraction (Numerator Denominator): 5 7
Second Fraction (Numerator Denominator): 10 14
0
PS C:\Users\Aman Morghade\OneDrive\Documents\DSA_CoEP\LabWork1\structures>
```

```
PS C:\Users\Aman Morghade\OneDrive\Documents\DSA_CoEP\LabWork1\structures>  gcc .\Qs6.c
PS C:\Users\Aman Morghade\OneDrive\Documents\DSA_CoEP\LabWork1\structures> .\a.exe
DD MM YYYY: 27 07 2005
Valid
PS C:\Users\Aman Morghade\OneDrive\Documents\DSA_CoEP\LabWork1\structures> .\a.exe
DD MM YYYY: 29 02 2020
Valid
PS C:\Users\Aman Morghade\OneDrive\Documents\DSA_CoEP\LabWork1\structures> .\a.exe
DD MM YYYY: 12 21 2006
Invalid
PS C:\Users\Aman Morghade\OneDrive\Documents\DSA_CoEP\LabWork1\structures>
```

```
PS C:\Users\Aman Morghade\OneDrive\Documents\DSA_CoEP\LabWork1\structures> gcc .\Qs7.c
PS C:\Users\Aman Morghade\OneDrive\Documents\DSA_CoEP\LabWork1\structures> .\a.exe
Time 1 (HH MM SS): 10 20 50
Time 2 (HH MM SS): 17 54 17
Added: 28hrs 15mins 7sec
Subtracted: 0hrs 0mins 0sec
PS C:\Users\Aman Morghade\OneDrive\Documents\DSA_CoEP\LabWork1\structures> .\a.exe
Time 1 (HH MM SS): 14 57 22
Time 2 (HH MM SS): 10 54 07
Added: 25hrs 51mins 29sec
Subtracted: 4hrs 3mins 15sec
PS C:\Users\Aman Morghade\OneDrive\Documents\DSA_CoEP\LabWork1\structures>
```