Answers –lab sheet 8

- ## Question 1

```
*****Student 1 details*****

Name : Sadun Jayakody
Address : No 29,diyagoda,kuliyapitiya
id : 36985
Age : 17
Marks : 87

*****Student 2 details*****
Name : Rashmi Prathapawardana
Address : No 671,Palavaththa,Kaluthara
id : 36976
Age : 16
Marks : 69

*****Student 3 details*****
Name : Sewmya dabare
Address : No 194,Eppawala
id : 36927
Age : 18
Marks : 90

*****Student 4 details*****
Name : Diniru gallage
Address : 35/A,Weeraketiya,Hambanthota
id : 36986
Age : 17
Marks : 73

*****Student 5 details*****
Name : Manul jayasinghe
Address : 94,2nd lane,Koswaththa
id : 36919
Age : 18
Marks : 83
******Students details*****

*****Student 1 details*****
Name :   Address : No 29,diyagoda,kuliyapitiya   NIC : 36985     Age : 17        Marks : 87

*****Student 2 details*****
Name :   Address : No 671,Palavaththa,Kaluthara  NIC : 36976     Age : 16        Marks : 69

*****Student 3 details*****
Name :   Address : No 194,Eppawala         NIC : 36927     Age : 18        Marks : 90

*****Student 4 details*****
Name :   Address : 35/A,Weeraketiya,Hambanthota  NIC : 36986     Age : 17        Marks : 73

*****Student 5 details*****
Name :   Address : 94,2nd lane,Koswaththa        NIC : 36919     Age : 18        Marks : 83
```

- **Question 2**

```
Enter the value1
feet: 5
inch: 7
Enter the value2
feet: 4
inch: 9
Sum of distance = 10 feet 4 inch
-------------------------------
Process exited after 15.73 seconds with return value 33
Press any key to continue . . .
```

- **Question 3**

```
******Student 1 details******

Name : Chathuni Perera
ID no: 19680
Chemistry marks : 98
Com.Maths marks : 100
Physics marks : 93

******Student 2 details******
Name : Keshan Peris
ID no: 19676
Chemistry marks : 67
Com.Maths marks : 90
Physics marks : 59

******Student 3 details******
Name : Isuru Jayaweera
ID no: 19683
Chemistry marks : 69
Com.Maths marks : 64
Physics marks : 60

******Student 4 details******
Name : Heshani Dabare
ID no: 19679
Chemistry marks : 50
Com.Maths marks : 45
Physics marks : 48

******Student 5 details******
Name : Sandun Mudiyanse
ID no: 19678
Chemistry marks : 39
Com.Maths marks : 45
Physics marks : 42

******Student average marks******
ID number : 19680       Name : Chathuni Perera  Average marks : 99.00
ID number : 19676       Name : Keshan Peris     Average marks : 82.00
ID number : 19683       Name : Isuru Jayaweera  Average marks : 65.00
ID number : 19679       Name : Heshani Dabare   Average marks : 46.00
ID number : 19678       Name : Sandun Mudiyanse Average marks : 43.00
```

- **Question 4**

```
Enter the real part of Z1 : 3
Enter the virtual part of Z1 : 5
Enter the real part of Z2 : 6
Enter the virtual part of Z2 : 4
Z1 = 3 + i5
Z2 = 6 + i4
Z1 + Z2 = 9 + i9
Z1 - Z2 = -3 + i1
Z1*Z2 = -2 + i42
```

- **Question 5**

```
*****Student 1 details*****

Name : Malsha Perera
Address : No 17,Beach Road,Mathara
ID : 65498
Age : 11

*****Student 2 details*****
Name : Dilani Jayasinghe
Address : 35E,Dehivala
ID : 65487
Age : 13

*****Student 3 details*****
Name : Saumya Munasinghe
Address : Hangamuva Road,Udakaravita
ID : 65475
Age : 14

*****Student 4 details*****
Name : Janith Kotte
Address : 40c,Galenbidunuveva
ID : 65439
Age : 14

*****Student 5 details*****
Name : Lakindu Peris
Address : 98,Vihara Mavatha,kandy
ID : 65490
Age : 13

*****Student 6 details*****
Name : Samadhi Rathnayaka
Address : 1st lane,Piliyandala
ID : 65462
Age : 14

*****Student 7 details*****
Name : Kaushi silva
Address : Church Road,Ambalangoda
ID : 65490
Age : 13
```

```
*****Student 8 details*****
Name : Ruchira Perera
Address : 148/h,Ganemulla
ID : 65446
Age : 11

*****Student 9 details*****
Name : Thathsara Jayakodi
Address : 305,Ahangama
ID : 65441
Age : 14

*****Student 10 details*****
Name : Prithy Yapa
Address : 417,Ganemulla
ID : 65447
Age : 13

*****Student 11 details*****
Name : Sithum Weerakon
Address : 177,veyangoda
ID : 654352
Age : 12

Names of students who having age 14 :
Name : Saumya Munasinghe
Name : Janith Kotte
Name : Samadhi Rathnayaka
Name : Thathsara Jayakodi

Names of students who having even id number :
Name : Malsha Perera
Name : Lakindu Peris
Name : Samadhi Rathnayaka
Name : Kaushi silva
Name : Ruchira Perera
Name : Sithum Weerakon
Enter the id number of student you want to search : 65462
ID : 65462
Name : Samadhi Rathnayaka
Address : 1st lane,Piliyandala
Age : 14
```

- **Question 6**

```
*****Customer 1 details*****

Name : R.K.Abywardhana
Account number : 154256000
Balance : 2000

*****Customer 2 details*****
Name : T.L.Peris
Account number : 478965000
Balance : 1000

*****Customer 3 details*****
Name : P.R.Ranaweera
Account number : 789325001
Balance : 200

*****Customer 4 details*****
Name : Y.T.Abeykon
Account number : 698739005
Balance : 500

*****Customer 5 details*****
Name : W.O.Kumara
Account number : 483059007
Balance : 100

*****Customer 6 details*****
Name : S.S.Dabare
Account number : 698024560
Balance : 50

*****Customer 7 details*****
Name : U.B.Athukorala
Account number : 657903580
Balance : 150

*****Customer 8 details*****
Name : L.H.Uduvage
Account number : 243015000
Balance : 290
```

```
*****Customer 9 details*****
Name : A.C.Jayathilaka
Account number : 143279012
Balance : 800

*****Customer 10 details*****
Name : Z.M.kasim
Account number : 987546210
Balance : 900

*****Customer 11 details*****
Name : H.I.Jayaweera
Account number : 1400
Balance : 1400

**Names of all the customers having balance less than Rs.200**
W.O.Kumara
S.S.Dabare
U.B.Athukorala

**The names of customers whose balanced is increment and their new balance**
name : R.K.Abywardhana  balance : 2100
name : H.I.Jayaweera     balance : 1500
```

- **Question 7**

```
Enter date(fomat : yyyy mm dd) :2020 07 20
Enter date(fomat : yyyy mm dd) :2020 07 22
Dates are not equal
------------------------------
Enter date(fomat : yyyy mm dd) :2020 07 22
Enter date(fomat : yyyy mm dd) :2020 07 22
Dates are equal
------------------------------
```

- **Question 8**

```
Enter current date(fomat : yyyy mm dd) :2020 07 22
Current date + 45 days = 2020 09 05
------------------------------
```

- **Question 9**

```
*****Employee 1 details*****
Name : John
Salary : 20000
Hours of work per day : 6

*****Employee 2 details*****
Name : Kane
Salary : 30000
Hours of work per day : 8

*****Employee 3 details*****
Name : Jane
Salary : 25000
Hours of work per day : 10

*****Employee 4 details*****
Name : Lily
Salary : 9000
Hours of work per day : 12

*****Employee 5 details*****
Name : Ruby
Salary : 13000
Hours of work per day : 10

*****Employee 6 details*****
Name : Lusy
Salary : 10000
Hours of work per day : 8

*****Employee 7 details*****
Name : Lusiya
Salary : 4000
Hours of work per day : 8

*****Employee 8 details*****
Name : Susan
Salary : 28000
Hours of work per day : 6
```

```
*****Employee 9 details*****
Name : sheela
Salary : 14000
Hours of work per day : 10

*****Employee 10 details*****
Name : Jerry
Salary : 11000
Hours of work per day : 8

*****Final salary details of employees*****
Name : John      Final salary : 20000
Name : Kane      Final salary : 45000
Name : Jane      Final salary : 55000
Name : Lily      Final salary : 54000
Name : Ruby      Final salary : 43000
Name : Lusy      Final salary : 25000
Name : Lusiya    Final salary : 19000
Name : Susan     Final salary : 28000
Name : sheela    Final salary : 44000
Name : Jerry     Final salary : 26000
```

- **Question 10**

```
********* MAIN MENU ********
1: Display book information
2: Add a new book
3: Display all the books in the library of a particular author
4: Display the number of books of a particular title
5: Display the total number of books in the library
6: Issue a book
7: Exit:
Enter your option:2


How Many Records You Want to Add: 5

-----------------------------------------------------------
Add Details of 5 Book

Accession_number            :1578
Title                       :War and Peace
Author                      :Leo Tolstoy

Accession_number            :1469
Title                       :Hamlet
Author                      :William Shakespeare

Accession_number            :1580
Title                       :Anna Karenina
Author                      :Leo Tolstoy

Accession_number            :1472
Title                       :Hamlet
Author                      :William Shakespeare

Accession_number            :1647
Title                       :The Iliad
Author                      :Homer
```

```
******** MAIN MENU ********
1: Display book information
2: Add a new book
3: Display all the books in the library of a particular author
4: Display the number of books of a particular title
5: Display the total number of books in the library
6: Issue a book
7: Exit:
Enter your option:1

               Details of All Book
-----------------------------------------------------------
Accession_number          Title               Author
1578                      War and Peace       Leo Tolstoy
1469                      Hamlet              William Shakespeare
1580                      Anna Karenina       Leo Tolstoy
1472                      Hamlet              William Shakespeare
1647                      The Iliad           Homer
```

```
******** MAIN MENU ********
1: Display book information
2: Add a new book
3: Display all the books in the library of a particular author
4: Display the number of books of a particular title
5: Display the total number of books in the library
6: Issue a book
7: Exit:
Enter your option:3


Enter author Name: Leo Tolstoy

-----------------------------------------------------------

War and Peace

Anna Karenina
```

```
********* MAIN MENU ********
1: Display book information
2: Add a new book
3: Display all the books in the library of a particular author
4: Display the number of books of a particular title
5: Display the total number of books in the library
6: Issue a book
7: Exit:
Enter your option:4


Enter title  Name: Hamlet


----------------------------------------------------------

Number of Books under Hamlet title : 2

********* MAIN MENU ********
1: Display book information
2: Add a new book
3: Display all the books in the library of a particular author
4: Display the number of books of a particular title
5: Display the total number of books in the library
6: Issue a book
7: Exit:
Enter your option:5


Total Number of Books in Library : 5
```

```
******** MAIN MENU ********
1: Display book information
2: Add a new book
3: Display all the books in the library of a particular author
4: Display the number of books of a particular title
5: Display the total number of books in the library
6: Issue a book
7: Exit:
Enter your option:6


Enter Accession_number : 1578


------------------------------------------------------------

 The book 'War and Peace' was issued

******** MAIN MENU ********
1: Display book information
2: Add a new book
3: Display all the books in the library of a particular author
4: Display the number of books of a particular title
5: Display the total number of books in the library
6: Issue a book
7: Exit:
Enter your option:7

Exit
---------------------------------
Process exited after 403.9 seconds with return value 0
Press any key to continue . . .
```

- **Question 11**

```
ItemCode        Unit        price        Stock        Item
------------------------------------------------------------------

ITEM400         1.0         27.0         200.0        Sunlight soap
ITEM401         1.0         170.0        50.0         Anchor Packet (400gr)
ITEM404         1.0         550.0        25.0         Anchor Packet (1kg)
ITEM412         1.0kg       80.0         300.0        Rice
ITEM420         500.0gr     65.5         200.0        Dhal
ITEM419         250.0ml     225.5        10.0         Cordial Bottle
ITEM411         1.0li       160.0        20.0         Sun Flower Oil

***** BILL *****

Item Code    Quantity    Unit price    Total
--------------------------------------------------------
ITEM402      2.0         12.5          25.0
ITEM412      2.5         80.0          200.0
ITEM404      0.5         550.0         275.0
ITEM419      1500.0      225.5         1353.0
--------------------------------------------------------------------
             GRAND TOTAL: 1853.0
--------------------------------------------------------------------
```