TEAM 1

TEAM LEAD:

o ARUN S V

TEAM MEMBERS:

- o DEEPIKA J
- NANDHINI M
- **OKEERTHANA S**

LAB PROGRAMS: 24/5/2022

QUESTION 1

Create a small database, which will be used to store data about books. For a certain book, we want to keep the following information:

Title

Author

The program must be able to store 10 books, and the user will be allowed to:

Add data for one book

Display all the entered books (just title and author, in the same line)

Search for the book(s) with a certain title

Exit the program

PROGRAM:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Create
{
    class Books
        string Title, Author_name;
        int Id;
        public Books()
            this.Title = "";
            this.Author_name = "";
            this.Id = 00;
        public Books(string title, string author_name, int id)
            this.Title = title;
            this.Author_name = author_name;
            this.Id = id;
        }
        public void input()
            Console.Write("Enter the Book Name :");
            Title = Console.ReadLine();
            Console.Write("Enter the Author Name :");
            Author_name = Console.ReadLine();
            Console.Write("Enter the Id :");
            Id =int.Parse(Console.ReadLine());
        public void output()
            Console.WriteLine("Book Details : Book Name - {0} , Author - {1} , Id - {2} ",
Title,Author_name, Id);
        }
    class Program
    { static void Main(string[] args)
            Books[]Obj = new Books[3];
            Console.WriteLine("Enter 3 books details");
            for(int i = 0; i < 3; i++)</pre>
                Obj[i] = new Books();
                Obj[i].input();
            }
            Books Obj2 = new Books("GOT", "Jon Snow", 004);
            Console.WriteLine(" To Show the list of books enter 1 or Any no to exit");
            a = int.Parse(Console.ReadLine());
             if(a == 1)
```

```
for(int i = 0; i < 3; i++)
{
      Obj[i].output();
}
    Obj2.output();
}
else
{
    Console.WriteLine("ThankYou");
}</pre>
```

OUTPUT:

}

}

```
Microsoft Visual Studio Debug Console
Enter 3 books details
Enter the Book Name :abc
Enter the Author Name :aaa
Enter the Id :001
Enter the Book Name :bac
Enter the Author Name :bbb
Enter the Id :003
Enter the Book Name :cab
Enter the Author Name :ccc
Enter the Id :002
 To Show the list of books enter 1 or Any no to exit
Book Details : Book Name - abc , Author - aaa , Id - 1
Book Details : Book Name - bac , Author - bbb , Id - 3
Book Details : Book Name - cab , Author - ccc , Id - 2
Book Details : Book Name - GOT , Author - Jon Snow , Id - 4
D:\DISK-B\.NET\dotnet\Create\bin\Debug\net6.0\Create.exe (process 10796) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
 Press any key to close this window . . ._
```

QUESTION 2

Define a class called Library with the following description: Instance variables/data members: int acc_num — stores the accession number of the book String title — stores the title of the book String author — stores the name of the author Member methods: (i) void input () — To input and store the accession number, title and author. (ii) void compute () — To accept the number of days late, calculate the display the fine charged at the rate of Rs. 2 per day. (iii) void display() — To display the details in the following format: Accession Number Title Author

PROGRAM:

```
using System;
namespace Test
    class Library
        int acc_num, duedate, issueddate;
        string title, author;
        public Library(int date1)
            issueddate = date1;
            duedate = date1 + 10;
        }
        void icreate()
            Console.Write("Enter account number : ");
            acc_num = int.Parse(Console.ReadLine());
            Console.Write("Enter Book title : ");
            title = Console.ReadLine();
            Console.Write("Enter Book author : ");
            author = Console.ReadLine();
        }
        void icompute(int submitedate)
            if (submitedate > duedate)
                int xsday = submitedate - duedate;
                int fine = (xsday) * 2;
                Console.WriteLine("The book was issued on {0}", issueddate);
                Console.WriteLine("You had 10 days to return back but you took {0} so u finned
for those {1} day ", xsday + 10, xsday);
                Console.WriteLine("Your fine amount is Rs {0}", fine);
            }
            else
                Console.WriteLine("You submitted book on time so no issues . Thanks for the
Cooperatation ");
```

```
}
    }
    public void iout()
         int a;
         icreate();
        Console.WriteLine("Your Account number is {0}", acc_num);
        Console.WriteLine("Book details : Title - {0} , Author - {1}", title, author); Console.Write("Enter the Submittion date : ");
        a = int.Parse(Console.ReadLine());
        Console.WriteLine("Issued Date - {0} , Submitted {1}", issueddate, a);
         icompute(a);
    }
}
class Program
    static void Main(string[] args)
        Console.WriteLine("Welcome to Team1's Library ;p");
        Library Obj1 = new Library(5);
        Obj1.iout();
        Console.WriteLine("Thanks for visiting :)");
    }
}
```

OUTPUT

WITH FINE

}

```
Melicone to Tean's Library; ps
filer account manufact 1801
filer account manufact 1802
```

WITHOUT FINE

