

Question # 5 Solution

SOURCE CODE

```
package lesson3Assignment.creditquestion;

import java.time.LocalDate;
import java.time.Month;
import java.time.format.DateTimeFormatter;
import java.time.format.FormatStyle;
import java.util.Scanner;

public class MyDate {

    private int year;
    private int month;
    private int day;
    private int daysOfYear;
    private String wordmonth;
    private Month TMonth;

    MyDate(int year, int month, int day)
    {
        this.year = year;
        this.month = month;
        this.day = day;
    }

    MyDate(String wordmonth, int year, int day)
    {
        this.year = year;
        this.wordmonth = wordmonth;
```

```
        this.day = day;

        TMonth = Month.valueOf(wordmonth.toUpperCase());
    }
}
```

```
MyDate(int daysOfYear, int year)
{
    this.year = year;
    this.daysOfYear = daysOfYear;
}
}
```

```
public static void main(String[] args) {
    // TODO Auto-generated method stub

    int userYear;
    int userMonth;
    int userDay;
    int userDaysOfYear;
    String userWordmonth, contin;
    Scanner sc = new Scanner(System.in);

    do
    {
        displayMessage();

        int answer = sc.nextInt();
        MyDate myDate;
        LocalDate date;

        switch(answer)
        {
```

case 1:

```
        System.out.println("Choice: " + answer);
        System.out.println("Enter Month:");
        userMonth = sc.nextInt();
        System.out.println("Enter Day:");
        userDay = sc.nextInt();
        System.out.println("Enter Year:");
        userYear = sc.nextInt();

        myDate = new MyDate(userYear, userMonth, userDay);
        date = LocalDate.of(myDate.getYear(), myDate.getMonth(),
myDate.getDay());

        myDate.displayMessae(date);
        break;
```

case 2:

```
        System.out.println("Choice: " + answer);
        System.out.println("Enter Month in text:");
        userWordmonth = sc.next();
        System.out.println("Enter Day:");
        userDay = sc.nextInt();
        System.out.println("Enter Year:");
        userYear = sc.nextInt();

        myDate = new MyDate(userWordmonth, userYear, userDay);
        date = LocalDate.of(myDate.getYear(), myDate.getTMonth(),
myDate.getDay());

        myDate.displayMessae(date);

        break;
```

```

        case 3:
            System.out.println("Choice: " + answer);
            System.out.println("Enter Day of Year:");
            userDaysOfYear = sc.nextInt();
            System.out.println("Enter Year:");
            userYear = sc.nextInt();

            myDate = new MyDate(userDaysOfYear, userYear);
            date = LocalDate.ofYearDay(myDate.getYear(),
myDate.getDaysOfYear());
            myDate.displayMessae(date);

            break;

        case 4:
            exit();

        default:
            System.out.println("Wrong input");

    }

    System.out.println("Do you want to Continue :");
    contin = sc.next();
} while(contin.equalsIgnoreCase("y"));

sc.close();

return;

```

```
}
```

```
private static void exit() {  
    // TODO Auto-generated method stub  
    System.exit(0);  

```

```
}
```

```
public int getYear() {  
    return year;  
}
```

```
public int getMonth() {  
    return month;  
}
```

```
public int getDay() {  
    return day;  
}
```

```
public int getDaysOfYear() {  
    return daysOfYear;  
}
```

```
public String getWordmonth() {  
    return wordmonth;  
}
```

```

public Month getTMonth() {
    return TMonth;
}

private static void displayMessage() {
    // TODO Auto-generated method stub
    System.out.println("\nEnter 1 for format: MM/DD/YYYY");
    System.out.println("Enter 2 for format: Month DD, YYYY");
    System.out.println("Enter 3 for format: DDD YYYY");
    System.out.println("Enter 4 to exit");
    System.out.println("Choose your Choice :");
}

public void displayMessae(LocalDate date)
{
    System.out.println("MM/dd/yyyy: " +
date.format(DateTimeFormatter.ofPattern("MM/dd/yyyy")));
    System.out.println("MMMM dd,yyyy: " +
date.format(DateTimeFormatter.ofLocalizedDate(FormatStyle.LONG)));
    System.out.println("DDD yyyy: " + date.getDayOfYear() + " " + date.getYear());
    System.out.println();
}

}

```

Enter 1 for format: MM/DD/YYYY
Enter 2 for format: Month DD, YYYY
Enter 3 for format: DDD YYYY
Enter 4 to exit
Choose your Choice :

1

Choice: 1
Enter Month:

9

Enter Day:

16

Enter Year:

1996

MM/dd/yyyy: 09/16/1996

MMMM dd,yyyy: September 16, 1996

DDD yyyy: 260 1996

Do you want to Continue :

y

Enter 1 for format: MM/DD/YYYY
Enter 2 for format: Month DD, YYYY
Enter 3 for format: DDD YYYY
Enter 4 to exit
Choose your Choice :

2

Choice: 2

Choose your Choice :

2

Choice: 2

Enter Month in text:

September

Enter Day:

16

Enter Year:

1996

MM/dd/yyyy: 09/16/1996

MMMM dd,yyyy: September 16, 1996

DDD yyyy: 260 1996

Do you want to Continue :

y

Enter 1 for format: MM/DD/YYYY
Enter 2 for format: Month DD, YYYY
Enter 3 for format: DDD YYYY
Enter 4 to exit
Choose your Choice :

3

Choice: 3

Enter Day of Year:

260

Enter Year:

1996

MM/dd/yyyy: 09/16/1996

MMMM dd,yyyy: September 16, 1996

DDD yyyy: 260 1996

Do you want to Continue :