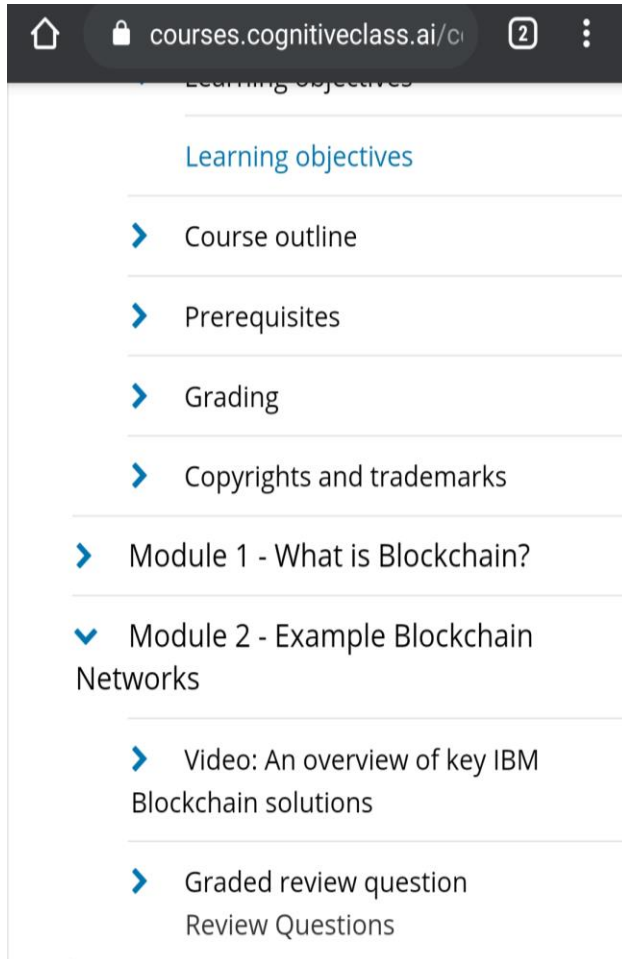


## DAILY ONLINE ACTIVITIES SUMMARY

|   |                              |                 |                    |
|---|------------------------------|-----------------|--------------------|
| <b>Date:</b>  | 23-06-2020                   | <b>Name:</b>    | Shaima Abdul Kader |
| <b>Sem &amp; Sec</b>  | 8 <sup>th</sup> sem B sec    | <b>USN:</b>     | 4AL16CS087         |
| <b>Online Test Summary</b>  |                              |                 |                    |
| <b>Subject</b>  | -                            |                 |                    |
| <b>Max. Marks</b>   | -                            | <b>Score</b>    | -                  |
| <b>Certification Course Summary</b>   |                              |                 |                    |
| <b>Course</b>   | IBM BlockChain Essentials V2 |                 |                    |
| <b>Certificate Provider</b>   | IBM                          | <b>Duration</b> | 3 Hrs              |
| <b>Coding Challenges</b>  |                              |                 |                    |
| <b>Problem Statement-</b> : C program to print the month by month calendar for the given year |                              |                 |                    |
| <b>Status:</b> completed  |                              |                 |                    |
| <b>Uploaded the report in Github</b>  |                              | yes             |                    |
| <b>If yes Repository name</b>   |                              | shaima          |                    |
| <b>Uploaded the report in slack</b>   |                              | yes             |                    |

**Certification Course Details: (Attach the snapshot and briefly write the report for the same)**



courses.cognitiveclass.ai/Ci

2

COGNITIVE CLASS

Course

Discussion

Progress

Module 2 - Example Blockchain

Video: An overview of key IBM Blockchain solutions

An overview of key IBM Blockchain solutions

Course > Networks

< Previous

8

Next >

An overview of key IBM Blockchain solutions

[Bookmark this page](#)

The presentation used in the video below is available for download and can be found at the following link:  
[Module 2 presentation](#)

An overview of key IBM Blockchain solutions

Simple Blockchain Networks

Module 2 of IBM Blockchain Essentials

Presented by  
Dave Gorman  
Global Blockchain Engagement,  
IBM

IBM Blockchain

Watch later

Share

Info

0:04 / 11:06

2.0x

HD

< Previous

Next >

Privacy Notice

Powered by  
IBM  
Blockchain Network

© Cognitive Class. All rights reserved except where noted. edX, Open edX and their respective logos are registered trademarks of edX Inc.

**Coding Challenges Details: (Attach the snapshot and briefly write the report for the same)**

## **Coding was given and it was uploaded for github and slack**

```
// C program to print the month by month  
// calendar for the given year
```

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

```
// Function that returns the index of the  
// day for date DD/MM/YYYY
```

```
int dayNumber(int day, int month, int year)  
{
```

```
    static int t[] = { 0, 3, 2, 5, 0, 3,  
                       5, 1, 4, 6, 2, 4 };
```

```
    year -= month < 3;
```

```
    return (year + year / 4
```

```
        - year / 100
```

```
        + year / 400
```

```
        + t[month - 1] + day)
```

```
    % 7;
```

```
}
```

```
// Function that returns the name of the  
// month for the given month Number  
// January - 0, February - 1 and so on
```

```
char* getMonthName(int monthNumber)  
{
```

```
    char* month;
```

```
switch (monthNumber) {
```

```
case 0:
```

```
    month = "January";
```

```
    break;
```

```
case 1:
```

```
    month = "February";
```

```
    break;
```

```
case 2:
```

```
    month = "March";
```

```
    break;
```

```
case 3:
```

```
    month = "April";
```

```
    break;
```

```
case 4:
```

```
    month = "May";
```

```
    break;
```

```
case 5:
```

```
    month = "June";
```

```
    break;
```

```
case 6:
```

```
    month = "July";
```

```
    break;
```

```
case 7:
```

```

        month = "August";

        break;

case 8:

    month = "September";

    break;

case 9:

    month = "October";

    break;

case 10:

    month = "November";

    break;

case 11:

    month = "December";

    break;

}

return month;
}

// Function to return the number of days
// in a month

int numberOfDays(int monthNumber, int year)
{

    // January

    if (monthNumber == 0)

        return (31);

```

```
// February

if (monthNumber == 1) {

    // If the year is leap then Feb
    // has 29 days

    if (year % 400 == 0

        || (year % 4 == 0

            && year % 100 != 0))

        return (29);

    else

        return (28);

}
```

```
// March

if (monthNumber == 2)

    return (31);
```

```
// April

if (monthNumber == 3)

    return (30);
```

```
// May

if (monthNumber == 4)
```

```
return (31);
```

```
// June
```

```
if (monthNumber == 5)
```

```
    return (30);
```

```
// July
```

```
if (monthNumber == 6)
```

```
    return (31);
```

```
// August
```

```
if (monthNumber == 7)
```

```
    return (31);
```

```
// September
```

```
if (monthNumber == 8)
```

```
    return (30);
```

```
// October
```

```
if (monthNumber == 9)
```

```
    return (31);
```

```
// November
```



```

    if (monthNumber == 10)

        return (30);


    // December

    if (monthNumber == 11)

        return (31);
}


// Function to print the calendar of
// the given year

void printCalendar(int year)
{

    printf("    Calendar - %d\n\n", year);

    int days;


    // Index of the day from 0 to 6

    int current = dayNumber(1, 1, year);


    // i for Iterate through months

    // j for Iterate through days

    // of the month - i

    for (int i = 0; i < 12; i++) {

        days = numberOfDays(i, year);


        // Print the current month name

```

```

printf("\n -----%s-----\n",
      getMonthName(i));

// Print the columns

printf(" Sun  Mon  Tue  Wed  Thu  Fri  Sat\n");

// Print appropriate spaces

int k;

for (k = 0; k < current; k++)

    printf("    ");

for (int j = 1; j <= days; j++) {

    printf("%5d", j);

    if (++k > 6) {

        k = 0;

        printf("\n");

    }

}

if (k)

    printf("\n");

```

```
    current = k;  
}
```

```
    return;  
}
```

```
// Driver Code
```

```
int main()  
{  
    int year = 2016;
```

```
    // Function Call
```

```
    printCalendar(year);  
    return 0;  
}
```