

DAILY ONLINE ACTIVITIES SUMMARY

Date:	23-06-2020	Name:	Afrah Saleem
Sem & Sec	8 th sem B sec	USN:	4AL16CS127
Online Test Summary			
Subject	-		
Max. Marks	-	Score	-
Certification Course Summary			
Course	OOPS in java		
Certificate Provider	Udemy	Duration	13 Hrs
Coding Challenges			
Problem Statement- : C program to print the month by month calendar for the given year			
Status: completed			
Uploaded the report in Github		yes	
If yes Repository name		afrah	
Uploaded the report in slack		yes	

Certification Course Details:

360P

CC

1.0X

Lectures

More

6

Video - 18:22 mins

7

✓

Abstract Method

Video - 16:44 mins

8

✓

Abstract class

Video - 16:35 mins

9

✓

Abstract class vs Abstract Method

Video - 15:11 mins

10

Member Modifiers: public and default

Video - 17:52 mins

11

Member Modifiers: protected

Video - 17:44 mins

12

Summary of public,protected,default a...

Video - 05:54 mins

Section 3 - Interfaces

Coding Challenges Details:

```
// 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;  
}
```