

Final C++ Practical EXAM Sample

Write a program that prompts the user to enter the year and month, and displays the number of days in the month. Use static arrays to retrieve the number of days in each month. The [Gregorian calendar](#) consists of the following 12 months:

1. [January](#) - 31 days
2. [February](#) - 28 days in a [common year](#) and 29 days in [leap years](#)
3. [March](#) - 31 days
4. [April](#) - 30 days
5. [May](#) - 31 days
6. [June](#) - 30 days
7. [July](#) - 31 days
8. [August](#) - 31 days
9. [September](#) - 30 days
10. [October](#) - 31 days
11. [November](#) - 30 days
12. [December](#) - 31 days

Then the program should prompts the user to enter any key to continue or 0 to exit. The following shows an example of the output:

```
#####
```

```
    Number of Days in a Month
```

```
#####
```

```
Enter the year in YYYY format: 2000
```

```
Enter the MONTH in MM format : 2
```

```
February 2000 ha 29 days.
```

```
Do you want to continue: u
```

```
Enter the year in YYYY format: 2005
```

```
Enter the MONTH in MM format : 2
```

```
February 2005 ha 28 days.
```

```
Do you want to continue: w
```

```
Enter the year in YYYY format: 2015
```

```
Enter the MONTH in MM format : 3
```

```
March 2005 ha 31 days.
```

```
Do you want to continue: 0
```

```
Good bye!
```

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```
#include <iostream>
#include <string>
using namespace std;
int main(){
// define variables needed in reading year, month and exit values
    int year,month,exit,
// define array to save days in each month
    daysinmonth[12]={31,28,31,30,31,30,31,31,30,31,30,31};
// define array of string to save months' name
    string months[]={"january","february ","march", "april","may",
"june","july",
"august","september","october","november ","december"};

    do{

        cout<<"enter the year in yyyy format:";
        cin>>year;

        cout<<"\nenter the month in mm format:";
        cin>>month;

        //get the days for the specific month
        int days = daysinmonth[month];

        // if it is leap year and february increase the days to
one
        if((year%4 ==0 ) && (month == 2)){
            days++;
        }
// print a statement
        cout<<endl<<(months[month]+" ")<<year<< " has "<<days;
        //ask use if they want to continue the processs
        cout<<"\ndo you want to continue:";
        cin>>exit;

        }while(exit != 0);
        cout<<"good bye!";
        return 0;
    }
```