

Topic

Date

University of Delhi - Open Book Examination
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COURSE NAME : (570) - (CBCS) B.Sc. (Hons.) Computer Science

SEMESTER : I

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ANSWER 6:CODE:

#include <iostream>

#include <string>

using namespace std;

```
string months[] = { "January", "February", "March",
    "April", "May", "June", "July", "August",
    "September", "October", "November", "December" };
```

```
int months30[] = { 0, 0, 0, 1, 0, 1, 0, 0, 1, 0, 1, 0 };
```

```
int months31[] = { 1, 0, 1, 0, 1, 0, 1, 1, 0, 1, 0, 1 };
```

```
string convertDate (int m, int d, int y)
{
```

```
    string str = " ";
```

```
    try
    {
```

```
        if (m < 1 || m > 12)
```

```
            throw "Not a valid month";
```

```
        str.append(months[m-1] + " ");
```

```
    }
    if (m == 2)
```

```
    {
        if (d < 1 || d > 29)
```

```
            throw "Not a valid day";
```

```
        if (!(((y % 4 == 0) && (y % 100 != 0)) || (y % 400 == 0)
            && d == 29))
```

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```

        throw "Not a Valid day";
        throw "Not a leap year";
    }
    else if (month 31[m-1])
    {
        if (d < 1 || d > 31)
            throw "Not a Valid day";
    }
    else if (month 30[m-1])
    {
        if (d < 1 || d > 30)
            throw "Not a Valid day";
    }

    str.append(to_string(d) + ", ");
    str.append(to_string(y));
}
catch (const char *e)
{
    cerr << e << endl;
    exit(2);
}
return str;
}

int main()
{
    int d, m, y;
    cout << "Enter month: ";
    cin >> m;

```

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```
cout << "Enter date: ";  
cin >> d;  
cout << "Enter year: ";  
cin >> y;  
cout << convertDate(m, d, y) << endl;  
return 0;  
}
```