

FACULTY OF TECHNOLOGY Department of Information Technology

Experiment 5: Write a program to compute previous date, given present date as input and perform decision table testing.

Solution:

```
#include <iostream>
using namespace std;
void getPrevDate(int *day,int *month, int *year)
if(*day==1)
if(*month==4|| *month==6|| *month==9|| *month==11)
*day=31;
*month = *month -1;
else if(*month==3)
if(*year%4==0)
*day=29;
else
*day=28;
*month = *month -1;
else if(*month==1)
*day=31;
*month = 12;
*year = *year - 1;
else if(*month==2)
*day=31;
*month = *month -1;
Software Testing – Lab Manual
[7TD1 – B][smit kachhad][91800104011]
else
else
*day=30;
*month = *month -1;
*day = *day-1;
}
int main()
int dd=5,mm=8,yy=2021;
cout<<endl<<"Date: "<<dd<<"/"<<mm<<"/"<<yy;
```



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```
getPrevDate(&dd,&mm, &yy);
cout<<endl<<"Previous date : "<<dd<<"/"<<mm<<"/"<<yy;
return 0;
}</pre>
```

Conditions are:

C1: dd < 31

C2: dd = 1, $mm = 5 \parallel 7 \parallel 8 \parallel 10 \parallel 12$

C3: dd = 1, mm = 3 (leap year)

C4: dd = 1, mm = 3 (non-leap year)

C5: dd = 1, mm = 2 || 4 || 6 || 9 || 11

C6: dd = 1, mm = 1

Actions:

A1: dd = 1

A2: dd = 30, mm = 1

A3: dd = 29, mm = 2

A4: dd = 28, mm = 2

A5: dd = 31, mm -= 1

A6: dd

Decision Table:

Conditions	R1	R2	R3	R4	R5	R6
1	T					
2		T				
3			T			
4				T		
5					T	
6						T
Actions						
1	T					
2		T				
3			T			
4				T		
5					T	
6						T

Output:

Date : 5/8/2021 Date : 1/5/2021

Previous date : 4/8/2021 Previous date : 30/4/2021

Date : 1/3/2020 Date : 1/3/2021

Previous date : 29/2/2020 Previous date : 28/2/2021

Date : 1/2/2021 Date : 1/1/2021

Previous date : 31/1/2021 Previous date : 31/12/2020