

Assignment 1

Ask student for their grade

evaluate grade:

- if grade is less than 50 then they are failed
- if grade is greater than 50 and less than 65 then they are passed
- if grade is greater than 65 and less than 75 then they are Good
- if grade is greater than 75 and less than 85 then they are very Good
- if grade is greater than 85 to 100 then they are Excellent

print results.

Assignment 2

You'll write a C++ console program that lets the user type in a day [1 : Monday,..., 7 : Sunday]. If the day is valid (between 1 and 7) we say which day it is, otherwise we print an error message saying the day is invalid and terminate the program.

Below is a sample run

```
PS E:\Sandbox\CppTemplateProject> .\rooster.exe
Which day is today [1 : Monday,..., 7 : Sunday] :
5
Today is Friday.Let's have some fun.
PS E:\Sandbox\CppTemplateProject> .\rooster.exe
Which day is today [1 : Monday,..., 7 : Sunday] :
1
Today is Monday.Let's have some fun.
PS E:\Sandbox\CppTemplateProject> .\rooster.exe
Which day is today [1 : Monday,..., 7 : Sunday] :
12
12 is not a valid day. Bye!
PS E:\Sandbox\CppTemplateProject> |
```

Assignment 3

You'll write a program that lets the user type in the current day [1 : Monday, ..., 7 : Sunday], and a day difference. Your program will then go that day difference in the past and say which day of the week we hit.

For example if today is a 3 [Wednesday] and we want to go 10 days in the past, we would hit a Sunday. The program should also do some basic error checking in that it wouldn't for example accept 8 as the current day. Only days from 1 to 7 are acceptable.

Below is a sample run

```
PS E:\Sandbox\CppTemplateProject> .\rooster.exe
Which day is today [1 : Monday,..., 7 : Sunday] :
8
8 is not a valid day. Bye!
PS E:\Sandbox\CppTemplateProject> .\rooster.exe
Which day is today [1 : Monday,..., 7 : Sunday] :
3
How many days have passed up to today :
10
Today is Wednesday
If we went 10 days in the past we would hit a Sunday
PS E:\Sandbox\CppTemplateProject> .\rooster.exe
Which day is today [1 : Monday,..., 7 : Sunday] :
5
How many days have passed up to today :
50
Today is Friday
If we went 50 days in the past we would hit a Thursday
PS E:\Sandbox\CppTemplateProject> █
```

The program has two challenges for you in my opinion

- Terminating the program before it hits the end of the main function
- Making sure the day difference is between 0 and 6 for ease of computations. The modulus operator may help
- Printing the days correctly. At this point it is acceptable to have code duplicated. We'll learn better ways to write programs like this in the future