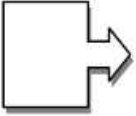# Lab 4 Part II Using Arrays

## Instruction Conventions

	When the "process" icon appears in the box on the left, then this box will contain one or more instructions that you will need to follow. The instructions will be a specific as is practical but could be different for different users and computer configurations.
	When the "note" icon appears in the box to the left, this box will contain notes, hints, or tips that may be helpful to the lab activities.
	<user input>
	When the keyboard icon appears in the box to the left, the box above will contain a line of input to be entered by the user, and this box will contain an explanation of what the user input will do.
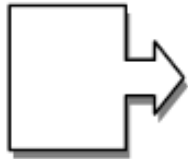
1. Using a web browser, goto HWMath.net/IBCS and open the link DaysAway.bas file.

   This is a program shell with an outline of the task you are asked to perform. Save this to your C: drive where you have blassic.exe installed and other BASIC programs.
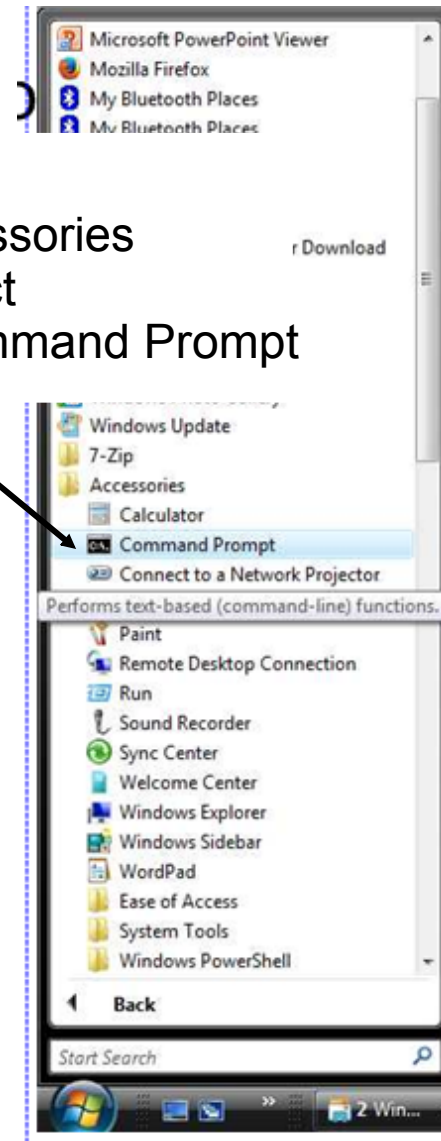
   You can do this by starting Notepad, copying the text from the open DaysAway.bas program, or by right-clicking on the link and using:
   Save Link As
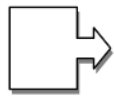
1) From the
   start menu
   select
      All Programs

2) From
   Accessories
   Select
      Command Prompt

If you are using a different computer than you have used before, be sure to copy blassic.exe from the CD into your work space.

copy d:\blassic\blassic.exe

2. Add your name on line 110.

3. After line 200, insert the code to get the value of N from the user.

4. Complete the block of code to initialize the array D$ so that entries 1 to 7 are complete - you can put this in any order you need to for your program to work today for any value of n > 0.

5. Add the calculation to figure out what day of the week it will be in N days.

6. Send the user some output, similar to the following:

```
C:\Users\Jibr>blassic DaysAway.bas

Enter the number of days from today:287
Today is Tuesday, in 287 days it will be Tuesday.
```

```
C:\Users\Jibr>blassic DaysAway.bas

Enter the number of days from today:8
Today is Tuesday, in   8 days it will be Wednesday.
```

```
C:\Users\Jibr>blassic DaysAway.bas

Enter the number of days from today:0
Today is Tuesday, in   0 days it will be Tuesday.
```

Challenge and Extension

Can you change the program so that
if the user enters 0 for N the
program still works?

Can you initialize the array and
perform the calculation so that no
special processing has to be
performed no matter what N is?

```
C:\Users\Jibr>blassic DaysAway.bas

Enter the number of days from today:287
Today is Tuesday, in 287 days it will be Tuesday.
```

```
C:\Users\Jibr>blassic DaysAway.bas

Enter the number of days from today:8
Today is Tuesday, in   8 days it will be Wednesday.
```

```
C:\Users\Jibr>blassic DaysAway.bas

Enter the number of days from today:0
Today is Tuesday, in   0 days it will be Tuesday.
```