(12 marks) A particular business is open from 10:00am to 5:00pm Monday to Friday. It is also open from 10:00am to 2:00pm on Saturdays. On the third Thursday of the month they stay open late until 8:00pm instead of closing at 5:00pm. The business is normally closed on Sundays, but in December, before Christmas Eve, they are open from noon until 4:00pm on Sundays to give customers additional time to do their Christmas shopping. The business is closed from December 24 up to and including January 1.

The program will read the day of the week (a three character string), the month (a three character string), and the day within the month (an integer) from the user. Once these values have been read (in that order) your program should display the opening times for that day. Several sample runs of the program are shown below.

Sample Run #1:

Enter the day of the week: Sun
Enter the month: Nov
Enter the numeric day: 12
Sun Nov 12: Closed

Sample Run #2:

Enter the day of the week: Sun
Enter the month: Dec
Enter the numeric day: 12
Sun Dec 12: Noon to 4:00pm

Sample Run #3:

Enter the day of the week: Mon
Enter the month: Jan
Enter the numeric day: 1
Mon Jan 1: Closed

Sample Run #4:

Enter the day of the week: Tue
Enter the month: Jan
Enter the numeric day: 2
Tue Jan 2: 10:00am to 5:00pm

Use the following lines to create your program. Some lines may not be required for a correct solution. Lines may be used multiple times.

1: day = int(input("Enter the numeric day: "))
2: dow = input("Enter the day of the week: ")
3: elif dow == "Sun":
4: elif dow == "Thu" and day >= 15 and day <= 21:
5: elif mon == "Jan" and day == 1:
6: else:
7: hours = "10:00am to 2:00pm"
8: hours = "10:00am to 5:00pm"
9: hours = "10:00am to 8:00pm"
12: hours = "Closed"
13: hours = "Noon to 4:00pm"
14: if dow == "Sat":
15: if mon == "Dec" and day >= 24:
16: if mon == "Dec":
17: mon = input("Enter the month: ")
18: print("%s %s %d: %s" % (dow, mon, day, hours))