Syzygy User’s Manual

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Overview of Syzygy 0.1

*Syzygy: the nearly straight-line configuration of three celestial bodies (as the sun, moon, and earth during a solar or lunar eclipse) in a gravitational system (Marriam-Webster)*

Syzygy 1.0 is intended to be your ultimate organization tool, helping you “get all you ducks” (or planets) “in a row.” Goal features of Syzygy 1.0 include: to-do lists, phone/address directories, option to organize tasks by priority, etc.

Syzygy 0.1 is the current stage of Syzygy’s development. The goals of this stage include: a working clock and calendar, option to set clock and calendar, list of all files in Syzygy’s directory, information and help for all commands, confirmation upon exiting.

Summary of Commands

1. Changing time: this command allows the user to manually set the clock shown at the top of the menu. Subcommands include: changing only the hour, changing only the minutes, and changing both the hour and the minutes at the same time. After the user enters the new value the main menu is shown again.
2. Changing date: this command allows the user to manually set the date shown at the top of the menu. Subcommands include: changing only the day, changing only the month, changing only the year, and changing all three elements at the same time. After the user enters the new value the main menu is shown again.
3. Printing Files in the Directory: this command allows the user to view the names of all the files used by the program. The main menu is shown again after the user presses enter.
4. Help: this command gives the user information on the previously stated commands by selecting the desired subcommand. The help screen is printed again after the user presses 0.
5. Exit: this command asks the user to confirm exit when selected. If the user enters 1 for yes, the program terminates. If the user enters 0 for no the main menu is printed again.

Command Description

1. Changing time
2. Use: opens submenu that gives options for manipulating clock.
3. Possible Errors:
4. Entering any other number except 1 upon opening of the main menu.
5. Changing hour only
6. Syntax: asks for new hour value and checks if value is between hour bounds 🡪 sets hour variable to value if within bounds
7. Use: allows user to change hour variable only
8. Example: new hour value = 3 🡪clock shows 3:(minutes)
9. Possible Errors:
10. Error 001
11. Changing minutes only
12. Syntax: asks for new minute value and checks if value is between minute bounds 🡪sets minute variable to value if within bounds
13. Use: allows user to change minute variable only
14. Example: new minute vale = 9 🡪clock shows (hour):09
15. Possible Errors:
16. Error 002
17. Changing both hour and minutes
18. Syntax: switch statement(userChoice) 🡪 asks for new hour value and checks if value is within hour’s bounds 🡪sets timeAndDate object’s hour variable if value is within bounds 🡪asks for new minute value and checks if value is within minutes’ bounds 🡪 sets timeAndDate object’s minute variable if value is within bounds
19. Use: changes both hour and minute variables of clock at the same time
20. Example: new hour = 5; new minutes = 38 🡪new time shown 5:38
21. Possible Errors:
22. Error 001
23. Error 002
24. Changing date
25. Use: opens submenu that gives options for manipulating date.
26. Possible Errors:
27. Entering any other number except 2 upon opening of the main menu.
28. Changing day only
29. Syntax: asks for new day value 🡪 checks if value is within bounds for day and within bounds for month the calendar is set to 🡪 changes timeAndDate object’s day variable if value is within all bounds
30. Use: allows the user to change date only
31. Example: new day value = 27 🡪0 < 27 <days in month 🡪object’s day value = new day value
32. Possible Errors:
33. Error 005
34. Error 006
35. Error 007
36. Error 008
37. Error 009
38. Changing month only
39. Syntax: changes month to user-defined value 🡪 changes day variable if new month has less days than old month value
40. Use: allows user to change only month value
41. Example: new month = 2 🡪old day value = 29 & leapyear = false 🡪day value = 28
42. Possible Errors:
43. Error 010
44. Changing year only
45. Syntax: asks for and checks if new year value is positive 🡪sets object’s year variable to new value if positive
46. Use: allows user to change only year value
47. Example: new year value = 1288 🡪new year value > 0 🡪object’s year variable = new year value
48. Possible Errors:
49. 011
50. Printing directory files
51. Use: prints names of all files included in the operation of the system.
52. Possible Errors:
53. Entering any other number except 3 upon opening of the main menu.
54. Pressing any other key except “enter” to close list and return to main menu.
55. Help
56. Use: opens submenu that gives topics for which help is available.
57. Possible Errors:
58. Entering any other number besides 4 upon opening of the main menu.
59. Exit
60. Use: asks for confirmation before either returning to the main menu or terminating the program
61. Possible Errors:
62. Entering any other values besides 1 or 2 when answering confirmation.

Summary of Error Messages

1. Error 001: “Hour cannot be set to 0 or any number greater than 12"—this error occurs when the user has entered a number that the hour cannot be set to. To correct: enter an hour greater than 0 but less than 13.
2. Error 002: “Minutes cannot be set to any number less than 0 or greater than 59"—this error occurs when the user has entered a number that minutes cannot be set to. To correct: enter a number between 0 and 59.
3. Error 003: “Please select 1,2, or 3"—this error occurs when the user has entered a number that is not an option in the given menu of 3 choices. To correct: enter a number between 1 and 3.
4. Error 004: “Value cannot equal anything other than 1,2,3, or 4"—this error occurs when the user has entered a number that is not an option in the given menu of 4 choices. To correct: enter a number between 1 and 4.
5. Error 005: “According to the month and year the calendar is currently set to it is February and a leap year. If this is true the date cannot be greater than 29"—this error occurs when the calendar is set to February of a leap year and the user has entered a number greater than 28. To correct: enter a number between 1 and 28.
6. Error 006: “Date cannot be less than 1"—this error occurs when the user has entered a negative number or 0 when resetting the day. To correct: enter a number equal to 1 or greater.
7. Error 007: “According to the month the calendar is currently set to it is February. If this is true the date cannot be greater than 28"—this error occurs when the month is set to February and the user has entered a number greater than 28. To correct: enter a number between 1 and 28.
8. Error 008: “The month the calendar is currently set to only has 30 days."—this error occurs when the month is set to September(9), April(4), June(6), or November(11) and the user has entered a number greater than 30. To correct: enter a number between 1 and 30.
9. Error 009: “The month the calendar is currently set to only has 31 days.”—this error occurs when the month is set to January(1), March(3), May(5), July(7), August(9), September(9), October(10),or December(12) and the user has entered a number greater than 31. To correct: enter a number between 1 and 31.
10. Error 010: “Month cannot be set to any number not between 1 and 12"—this error occurs when the user enters a number less than 1 or greater than 12 when setting the month. To correct: enter a number between 1 and 12.
11. Error 011: “Year cannot be negative" –this error occurs when user enters a negative number when setting the year manually. To correct: enter a number greater than -1.

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