python™

TRAINING EXCERCISE

EXCERCISE - 3

1. Generate Atleast 5 different Errors.

2. Handle all the 5 different Erros using try-except.

3. Handle an error with try-except-else.

4. Handle an error with try-except-else-finally.

5. Use raise for generating User Defined Exception for minimum length of a list should be 5.

6. Create a file 'mod.py' with a class with multiple methods and few member variables. Also create an individual methods outside the class as well. Create another file 'test.py' and without executing the 'mod.py' get it executed using the 'test.py' file.

7. Using the above mentioned files 'test.py' and 'mod.py'. In 'test.py' create an object of the class defined in the 'mod.py'. Call the methods using the object. Make sure only that class is accessible and not the individual method to execute.

8. Using the files 'test.py' and 'mod.py' call the individual method which is defined outside the class in 'mod.py' and call in it test.py. Make sure only that method from the file 'mod.py' is accessible in 'test.py'.

9. Using the files execute both class methods and individual method outside the class.

10. Create a script/program to open a file to write a string. Write a string in a file 'test_file.txt'.

11. Create a script/program to open a file 'test_file.txt' to read a string. Read the whole string content from the file and print it.

12. Create a script/program to open a file 'test_file.txt' to read the content line by line and print it.

13. Create a script/program to open a file 'test_file.txt' to append a string at the end of the existing string in a file.

14. Create a script/program to write and read binary data in a file 'test_file.data'.

15. Using pickle dump no of variables with different data types in a file 'my_variables.data'

16. Create another script/program and read the dumped variables in the file 'my_variables.data'.

17. Print the current date using datetime and date libraries.

18. Convert a datetime to a string. 19.Get the difference between two dates in days.

20. Calculate your age in years, months and days.

21. Get the date which is 1 week from today's date.

22. Get the date which is 1 year from today's date.

23. Get the date which is 1 month from today's date.

24. Get the 1st day of the current month from today's date.

25. Get the 1st month of the current year from today's date.

26. Get the dates of current month starting from Monday to Sunday in a list.

27. Get the first date and last date of the current month.

28. Get me the 1st and last date of the current month in the format as following.

    '14th June 2016 Tuesday 10:00:00 AM'

29. Get me random number from 1 to 100.

30. Get me a random combination of 4 different numbers between 1 to 100. 31.

      You have a sorted list from 1 to 10 you have to unsort it.

32. Execute a shell script command from python code.

33. Create a regular expression to check a valid URL.