

## SILVER OAK UNIVERSITY

| ज्ञान पश्म मृष्णम् | PYTHON Date : Page No. : 1   |
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| i                  | Assignment-4   |
| . 4                |  |
|                    |  |
| Que:1.             | What is Exception handling in Python?  |
| $\Rightarrow$      | An exception is an error which happens at  |
|                    | the time of execution of a program.  |
| )                  | However, while rynning a program, python generates   |
|                    | an exception that should be handled to avoid   |
|                    | your program to crash.  In python language, exceptions trigger automatically   |
|                    | on errors, or they can be triggered and  |
|                    | intercepted by your code.  |
| _                  | the exception indicates that, although the event   |
|                    | can occur, this type of event happens infrequently.  |
| -                  | when the method is not able to handle the  |
|                    | exception, it is thrown to its caller function.  |
| -                  | Eventually, when an exception is thrown out of the main function, the program is terminated  |
|                    | abruptly.  |
|                    | Lating wy  |
| *                  | Examples:  |
|                    |  |
| . •                | Division by zero.  Accessing a file which does not exist.  |
| •                  | Accessing a file which goes not exist.  Addition of two incompatible types.  |
| •                  | Removing the table from the disconnected database  |
|                    | server.  |
| •                  | ATM withdrawal of more than the grailable amount.  |
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Date : ..... Page No. : ...2 Que:21 Explain Try, except and finally keyword with example. An Exception is an Event, which occurs during the execution of the program. It is also known as a sun time error. X Try and except keyword: First try clause is executed i.e. the code between try and except clause. If there is no exception, then only try clause will run, except clause will not get executed. If any exception occurs, the try clause will be skipped and except clause will sign. Example: def divide (x,y): try: result = x 114 print (" yeah! Your answer is: ", VesyIt) except zero Division Error: Print(" sorry: you are dividing by zero") divide (3,2) divide (3,0)

Output: Yeah: Your answer is: 1

Sonry! You are dividing by zero

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|   |
| Finally keyword:                              |
| which is always                               |
| executed after try and executes after normal  |
| termination of try block or give              |
| due to some exception.                        |
|   |
| Example:                                      |
| def divide (x,y):                             |
| try:  |
| result = x 11 y                               |
| except zero Division Error:                   |
| print ("sorry: you are dividing by zero")     |
| eise:  print ("Yegh! Your answeris:", result) |
|   |
| finally: print ('This is always executed')    |
|   |
| divide (3,2)                                  |
| divide (3,0)                                  |
| output:                                       |
| Yeah! Your answer is:1                        |
| This is always executed                       |
| sorry! you are dividing by zero               |
| This is always executed.                      |
|   |
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Date:.....Page No.:..4 Que: 3. Explain different types of file access modes. Access mode determines the mode in which the file has to be opened ie. read, write appendetc. r - 1. opens a file for reading only. 2. The file pointer is placed at the begining of the file. 3. This is the default mode. rb - 1. opens a file for reading only in binary format. 2. this is the default mode. rt - 1. opens a file for both reading and writing. rbt - 1. opens a file for both reading and writing in binary format. W - 1. Opens a file for writing only 2. overwrites the file if the file exists. Wt - 1. opens a file for both writing and reading a - 1. opens a file for appending ab - 1. opens a file for appending in binary format. at - 1. opens a file for both appending and reading

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|               | Date : Page No. :5  |
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| Que:40        | How to open and close . txt file in python? .   |
| $\Rightarrow$ | · ·   |
| _             | Python. Python provides inbuilt functions for creating,   |
| -             | In this custicle, we will be discussing how to open an external file and close the same using Python. |
| *             | opening a file in Python:   |
|               | there are two types of files that can be handled in Python, normal text files and binary files.       |
|               | Example:  |
|               | file = open ("symple.txt")  Print (file. read())  |
|               | output:   |
|               | Hello Geek!  This is a sample text file for the example.  |
| *             | closing a file in python:   |
|               | As you notice, we have not closed any of the files that we operated on in the above examples.         |



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|----------------|--|
|                | Example:   |
|                |  |
|                | file = open ("sample. txt")                          |
|                | Print (file. read())                                 |
|                | file (lose c)  |
|                | file. Write ("Attempt to write on a closed file!")   |
|                | output: I/o operation on closed file.                |
|                |  |
| Que:5.         | How to create Mysor database connection using        |
|                | Python.  |
|                |  |
| <del>-</del> > | In this section of the tytorial, we will             |
|                | discuss the steps to connect the python capplication |
|                | to the database.                                     |
|                |  |
|                | 1. Import mysql. Connector module                    |
| ×              | 2. Create the connection object                      |
|                | 3. Create the curson object                          |
|                | 4. Excecute the guery                                |
| *              | Creating the comment                                 |
|                | Creating the connection:                             |
|                | TO EVERTER OF COMMONSTANCE                           |
|                | To create a connection between the Mysal             |
|                | database and the python application, the             |
|                | connect() method of mysql. connector module          |
|                | pass the database details like HostName, username,   |
|                | and the database password in the method              |
|                | Call.  |
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|                  | Date : Page No. :   |
|                  | Syntax:   |
|                  |   |
|                  | Connection -  |
|                  | Object = mysql. (onnector. (onnect Chost = <host-name></host-name>  |
|                  |   |
|                  | Example:  |
|                  |   |
|                  | import mysql. Connector   |
|                  | my conn = mysal. connector. connect (host = "localhost)  Print (my conn)  |
|                  |   |
|                  | output:   |
|                  | < my sq1. connector. connection. Mysal connection   |
|                  | Section 2 (1) and the |
|                  |   |
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