Advance Python Programming & Application

Exceptional Handling Class Tasks

25-March-2024 (Monday)

Task 1: Division with Error Handling

Write a function `divide (a, b) ` that takes two numbers as input and returns the result of dividing `a` by `b`. Handle any `ZeroDivisionError` exceptions by printing a suitable error message.

Task 2: Type Conversion with Error Handling

Write a function `convert_to_int(string)` that takes a string as input and converts it to an integer. Handle any `ValueError` exceptions that occur during the conversion by printing an appropriate error message.

Task 3: List Element Access with Error Handling

Write a function `get_element(lst, index)` that takes a list `lst` and an index `index` as input and returns the element at the specified index. Handle any `IndexError` exceptions by printing a message indicating that the index is out of range.

Task 4: Dictionary Key Access with Error Handling

Write a function `get_value(dictionary, key)` that takes a dictionary `dictionary` and a key `key` as input and returns the value associated with the key. Handle any

`KeyError` exceptions by printing a message indicating that the key is not present in the dictionary.

Task 5: Incorrect Function Definition

Write a program with a function definition that should accept two parameters, but mistakenly doesn't. Introduce an `IndentationError` or `SyntaxError` by improperly defining the function. Handle this error by printing a message indicating the incorrect function definition.