

NATIONAL UNIVERSITY OF COMPUTER & EMERGING SCIENCES FAST - PESHAWAR CAMPUS

Subject: Software Construction and Developmen	t Lab (CL-3001)
Instructor: Muhammad Saood Sarwar	
Assignment 2	Section: B
Name:	Roll No:
Below is the exception handling code. Display the outp	put for each scenario, write ERROR if any.
<pre>Question 1 try: print("Starting the checkout process") cart_total = input("Enter the total cost of your shopping.")</pre>	g cart: ")
<pre>#hint: string.replace(old, new, count) if not cart_total.replace('.', ", 1).isdigit(): raise ValueError("Invalid input string: Please enter a</pre>	a numeric value")
<pre>cart_total = float(cart_total)</pre>	
<pre>if cart_total <= 0: raise ValueError("Total cost must be greater than zer</pre>	ro")
discount = 0.1 final_amount = cart_total - (cart_total * discount) print(f"Final amount after 10% discount: {final_amount	nt}")
except ValueError as ve: print(f"Caught ValueError: {ve}")	
<pre>except Exception as e: print(f"Caught an unexpected error: {e}")</pre>	
finally: print("Checkout process completed.")	
Input: 100.0	Input: 100.0.0

Question 2

```
try:

num = 1.0

num = int(num)

result = "Hello" + num

except (ValueError, TypeError) as e:

print(f"Caught an error: {type(e).__name__}}")
```

Question 3

```
data = [10, 20, 30]
try:
    value = data[10]
except:
    pass
except IndexError:
    print("Index out of range!")
finally:
    print("Program completed successfully.")
```

Question 4

```
class CustomError(Exception):
    pass
try:
    raise CustomError("This is a custom error")
except CustomError as ce:
    print("Caught:", ce)
finally:
    print("Final block executed")
```

Question 5

```
denominator: 0
                                                            numerator: a
class InvalidOperationError(Exception):
  pass
def divide(a, b):
  assert b != 0, "Cannot divide by zero"
  if b == 1:
     raise InvalidOperationError("Cannot divide by one.")
  return a / b
  numerator = float(input("Enter numerator: "))
  denominator = float(input("Enter denominator: "))
  result = divide(numerator, denominator)
  print(f"Result: {result}")
except (AssertionError, InvalidOperationError) as e:
  print(e)
except ValueError:
  print("Invalid input.")
finally:
  print("Execution completed.")
```