Week-12 Assignment

'''#Write a try/except statement with else statement to return the value of a list if the index lies in the correct range else print index error:

l=["TOm","jerry",520]

n=int(input("enter index(0-2)"))

try:

 x=l[n]

except IndexError:

 print(f"Sorry! it's not in range of l.it have {len(l)} elements")

else:

 print(x)

Output:-

enter index(0-2):3

Sorry! it's not in range of l.it have 3 elements

#Write code for Division operation, show appropriate message if divisor is zero else display the quotient:

A=int(input("Enter A value: "))

B=int(input("Enter B value: "))

try:

 res=A/B

except ZeroDivisionError:

 print("Dear Coder! you are trying to divide with Zero Which is not possible.")

else:

 print(f"{A} is divisible by {B} and The quetient is {res}")

Output:-

Enter A value: 5

Enter B value: 2

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5 is divisible by 2 and The quetient is 2.5

#Write code for showing appropriate message when two non-compatible types are added.E:C=10+"kg":

A=int(input("Enter int value: "))

B=input("Enter String value: ")

try:

 res=A+B

except TypeError:

 print("Dear! you are trying to add an int value with string.Which is Not possible.")

Output:-

Enter int value: 5

Enter String value: sai

Dear! you are trying to add an int value with string.Which is Not possible.

#Write code that displays appropriate message when a variable is used in print statement without declaration:

try:

 print(A)

except NameError:

 print("you are trying to print variable'A' which is not defined")

Output:-

you are trying to print variable'A' which is not defined

 # Write code that displays error message when a student enters invalid pin:

class User_Error(RuntimeError):

 def __init__(self,value):

    self.value=value

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```python
stu_pin=input("Enter your pin number: ")

try:

 if len(stu_pin)<10 or stu_pin[5]!='A':

    raise(User_Error("Invalid pin!"))

except User_Error as e:

 print('login is not allowed',e.value)

else:

 print('login successfully completed.')
```

Output:-

Enter your pin number: 21555A0520

login successfully completed.

'''