Assignment T5_T6

1. Write a program in Python to allow the error of syntax to be handled using exception handling.
HINT: Use SyntaxError

```
amount = 10000

if(amount>2999)

  print("You are eligible to purchase Dsa Self Paced")
```

Output = if(amount>2999)
^
SyntaxError: expected ':'

2. Write a program in Python to allow the user to open a file by using the argv module. If the
the entered name is incorrect, throw an exception and ask them to enter the name again. Make sure
to use read only mode.

```
import sys
print('Number of arguments:' , len(sys.argv),'arguments.')
print('Argument List:',str(sys.argv))
```

3. Write a program to handle an error if the user entered a number more than four digits it should
return “The length is too short/long !!! Please provide only four digits”

```
digit =int(input("please type your digit"))

if digit >=0 and digit <= 4 :
   print("that is a correct digit")
```

```
else:
    print("this is not a valid digit")
```

Output =
please type your digits 12345
this is not a valid digit

4. Create a login page backend to ask users to enter the username and password. Make sure to
ask for a Re-Type Password and if the password is incorrect give chance to enter it again but it
should not be more than 3 times.

```
print('Enter correct username and password combo to continue')
count=0
while count < 3:
   username = input('Enter username: ')
   password = input('Enter password: ')
   if password=='1234' and username=='shivani0811@gmail.com':
      print('Access granted')
      break
   else:
      print('Access denied. Try again.')
      count += 1
```

Output = Enter correct username and password combo to continue
Enter username: shivugp1997@gmail.com
Enter password: Shivu0811
Access denied. Try again.
Enter username: shivani@gmail.com
Enter password: 1234
Access denied. Try again.
Enter username: shivani@gmail.com
Enter password: 1234
Access denied. Try again.

5. Go through the link provided below to understand finally and raise concept:
https://www.programiz.com/python-programming/exception-handling

6. Read doc.txt file using Python File handling concept and return only the even length string from
the file. Consider the content of doc.txt as given below:
Hello I am a file
Where you need to return the data string
Which is of even length
Make sure you return the content in The same link as it is present.

1. Write a program in Python to find out the character in a string which is uppercase using list
Comprehension.

```
str_obj = 'This is a Sample Text'
count = len([elem for elem in str_obj if elem.isupper()])
print(count)
```

Output = 3

2. Write a program to construct a dictionary from the two lists containing the names of students and
their corresponding subjects. The dictionary should map the students with their respective subjects.
Let’s see how to do this using for loops and dictionary comprehension.
HINT - Use Zip function also
Sample input: students = ['Smit', 'Jaya', 'Rayyan'] subjects = ['CSE', 'Networking', 'Operating System']
Expected output: {‘Smit’ : ’CSE’ , ’Jaya’ : ’Networking’ , ’Rayyan’ : ’Operating System’}

```
students = ['Smit', 'Jaya', 'Rayyan']
subjects  = ['CSE', 'Networking', 'Operating System']

res = {}
for key in students:
   for value in subjects :
       res[key] = value
       subjects .remove(value)
       break

print (" dictionary is : " +  str(res))
```

Output = dictionary is : {'Smit': 'CSE', 'Jaya': 'Networking', 'Rayyan': 'Operating System'}

3. Learn More about Yield, next and Generators

4. Write a program in Python using generators to reverse the string.
Input String = “Consultadd Training”

```
l=[]
def reverse_string(my_str):
   length = len(my_str)
   for i in range(length-1, -1, -1):
       yield my_str[i]

for l in reverse_string("Consultadd Training"):
   print(l,end = '')
```

Output = gniniarT ddatlusnoC

5. Write an example on decorators.

```
def shout(text):
   return text.upper()
print(shout('Hello'))
yell = shout
```

```
print(yell('Hello'))
```

Output = HELLO
HELLO