LAB # 12

STRINGS

EXERCISE

A. Point out the errors, if any, and paste the output also in the following Python programs.

1. Code:

```
a = "PYTHON"
a[0] = "x"
#Apply Exception for mention error
```

Output:

Str function is not used.

```
>>> %Run cp1.py
  Traceback (most recent call last):
    File "E:\Semester 1\P fund\Lab 12\cp1.py", line 2, in <module>
      a[0] = "x"
  TypeError: 'str' object does not support item assignment
```

2. Code:

```
a = STRING
i = 0
while i < len(b):
    c = a[i]
    print(c)
    i+=i + 1
```

Output:

B is written instead of a.

```
>>> %Run cp1.py
  Traceback (most recent call last):
    File "E:\Semester 1\P fund\Lab 12\cp1.py", line 1, in <module>
      a = STRING
  NameError: name 'STRING' is not defined
```

3. Code:

```
Def 1my_function(x):
return x[::-1]
```

```
mytxt = 1my_function("I wonder how this text looks like backwards")
print(mytxt)
```

Output:

Numeric value in defining function is causing an error.

```
>>> %Run cp1.py
  Traceback (most recent call last):
    File "E:\Semester 1\P fund\Lab 12\cp1.py", line 1
      Def 1my_function(x):
          ^
  SyntaxError: invalid syntax
```

B. What would be the output of the following programs:

1. Code:

```
s= "Welcome"
for i in range(0, len(s), 2):
    print(s[i], end = '')
```

Output:

```
>>> %Run cp
  Wloe
```

2. Code:

```
s = input("Enter a string: ")
if "Python" in s:
    print("Python", "is in", s)
else:
    print("Python", "is not in", s)
```

Output:

```
>>> %Run cp1.py
  Enter a string: If it is not working
  Python is not in If it is not working
>>>
```

3. Code:

```
str='cold'
list_enumerate=list(enumerate(str))
print("list enumerate:", list_enumerate)
print("list length:", len(str))
s1 = "Welcome to Python"
s2 = s1.replace("o","abc")
```

```
print(s2)
a = "Python" + "String"
b = "<" + a*3 + ">"
print(b)
```

Output:

```
>>> %Run cp1.py

  list enumerate: [(0, 'c'), (1, 'o'), (2, 'l'), (3, 'd')]
  list length: 4
  Welcabcme tabc Pythabcn
  <PythonStringPythonStringPythonString>
```

C. Write Python programs for the following:

1. Write a program that Store a person's name, and include some whitespace characters at the beginning and end of the name. Make sure you use each character combination, "\t" and "\n", at least once. Print the name once, so the whitespace around the name is displayed. Then print the name using each of the three stripping functions, lstrip(),rstrip(), and strip().

CODE:

```
name=input('Enter Name: ')
print(name,'\n')
LStp_name=name.lstrip( '   Abdul')
RStp_name=name.rstrip( ' Chishti')
Stp_name=name.strip( ' Abdul Chishti')
print('Lstripped Name:')
print(LStp_name,'\n')
print('Rstripped Name:')
print(RStp_name,'\n')
print('Stripped Name:')
print(Stp_name,'\n')
```

OUTPUT:

```
Enter Name: Abdul Moiz Chishti
Abdul Moiz Chishti

Lstripped Name:
Moiz Chishti

Rstripped Name:
Abdul Moiz

Stripped Name:
Moiz
```

2. Write a program that asks the user for their favourite color. Create the following output (assuming blue is the chosen color) (hint: use '+' and '*')

```
blueblueblueblueblueblueblueblueblueblue
blue                                blue
blueblueblueblueblueblueblueblueblueblue
```

CODE:

```
clr=input('Enter a colour: ')
print('\t\t',clr*10)
print('\t\t',clr,"\t\t\t   ",clr)
print('\t\t',clr*10)
```

OUTPUT:

```
>>> %Run 'task 2.py'

  Enter a colour: red
                   redredredredredredredredredred
                   red                        red
                   redredredredredredredredredred

>>> 
```