

ASSIGNMENT 2

1] What will be the output of the following Python code?

```
def change(a):
```

```
    b=[x*2 for x in a]
```

```
    print(b)
```

```
def change(a):
```

```
    b=[x*x for x in a]
```

```
    print(b)
```

```
from mod1 import change
```

```
from mod2 import change
```

```
s=[1,2,3]
```

```
change(s)
```

a) [2,4,6]

b) [1,4,9]

c) [2,4,6]

[1,4,9]

d) There is a name clash

2] Is the following code valid?

```
try:
```

```
    # Do something
```

```
except:
```

```
    # Do something
```

```
finally:
```

```
    # Do something
```

- a) no, there is no such thing as finally
- b) no, finally cannot be used with except
- c) no, finally must come before except
- d) yes

3] What is the output of the following code?

```
def foo():  
    try:  
        return 1  
    finally:  
        return 2
```

```
k =foo()
```

```
print(k)
```

- a) 1
- b) 2
- c) 3
- d) error, there is more than one return statement in a single try-finally block

4] What is the output of the code shown below?

```
x=10
```

```
y=8
```

```
assert x>y,'X too small'
```

- a) Assertion Error
- b) 10 8
- c) No output
- d) 108

5] What happens if the file is not found in the code shown below?

```
a=False
```

while not a:

try:

f_n=input("Enter file name")

i_f=open(f_n,'r')

except:

print("Input file not found")

- a) No error
- b) Assertion error
- c) Input output error
- d) Name error

6] What will be the output of the following Python code?

class test:

def __init__(self,a="Hello World"):

self.a=a

def display(self):

print(self.a)

obj=test()

obj.display()

- a) The program has an error because constructor can't have default arguments
- b) Nothing is displayed
- c) "Hello World" is displayed
- d) The program has an error display function doesn't have parameters

7] What will be the output of the following Python code?

class test:

def __init__(self):

self.variable = 'Old'

self.Change(self.variable)

def Change(self, var):

```
var = 'New'
```

```
obj=test()
```

```
print(obj.variable)
```

- a) Error because function change can't be called in the `__init__` function
- b) 'New' is printed
- c) 'Old' is printed
- d) Nothing is printed

8] What is the use of `seek()` method in files?

- a) sets the file's current position at the offset
- b) sets the file's previous position at the offset
- c) sets the file's current position within the file
- d) none of the mentioned

9] Which of the following is not a valid mode to open a file?

- a) ab
- b) rw
- c) r+
- d) w+

10] How do you change the file position to an offset value from the start?

- a) `fp.seek(offset, 0)`
- b) `fp.seek(offset, 1)`
- c) `fp.seek(offset, 2)`
- d) none of the mentioned

11] What is the output of the following?

```
i =1
```

```
whileFalse:
```

```
if i%2==0:
```

```
break
```

```
print(i)
```

```
    i +=2
```

- a) 1
- b) 1 3 5 7 ...

c) 1 2 3 4 ...

d) none of the mentioned

12] Write a Python program to Count the Number of Words in a Text File

13] Write a Python program to count the number of lines in a text file.

14] Write a Python program to print the even numbers from a given list.

15] Write a Python function to check whether a number is in a given range.

16] Write a Python program to reverse a string.

17] Write a Python function to create and print a list where the values are square of numbers between 1 and 10