

Assignment -1

- 1) REPL stands for:
 - READ, EDIT, PRINT, LOOP
 - RETRIEVE, EVALUATE, PRINT, LOOP
 - READ, EVALUATE, PRINT, LOOP
 - None of the above
- 2)What is not true about the bind() method in TKinter GUI Widget library?
 - It is an event handler function
 - It associates event handler with GUI widget
 - It recognizes GUI event type and invokes the corresponding callback function.
 - None of the above statements are true
- 3) What should you use to execute the Python statement and see the output?
 - REPL
 - IDLE
 - Jupyter Notebook
 - Visual Studio
- 4) Which of the following function is used to display the output?
 - output()
 - print()
 - display()
 - show()

5) Which	of	the	following	functions	is	used	to	get	the	user's
input?										

```
get()
prompt()
input()
get_input()
```

6) Which of the following defines a variable in Python?

```
var name="Steve"
string name="Steve"
name="Steve"
All of the above
```

7) How to get the type of the following variable?

i=10

```
    .type(i)
    .exec(i)
    print(i)
    .help(i)
```

8) What is the output of the following code?

```
>>> x=100>>> type(x)
```

```
integer
int

<class 'int'>
<class 'number'>
```

9) What is the output of the following code?

```
>>> x='Hello '>>> y='World'>>> x+y
```

- An error will be raised.
- 'Hello World'
- 'Hello '
- 'World'

10) What is the output of the following code?

```
>>> x='Hello '
>>> y='World2'
>>> x+y
```

- An error will be raised.
- 'Hello World2'
- 'Hello '
- 'World'

Assignment -2:-

• 1234e-10	
• 1.234e-04	
• 0.1234E-6	
 None of the above 	
2: What is true about complex numbers?	
 The real and imaginary component can be float 	
 The real part should be an integer. Scientific notation cannot be used in complex number All of above 	
 3: The int() function can be useful to convert string to Integer hexadecimal to integer float to int Complex number to int 	
4: What is the value of the following arithmet expression 5*2**10?	ic
• 100	
• 5120	
• 1000000000	
 None of the above 	
5: Which of the following is true?	
• 9%2=4	
• 9//2=4	
• 9/2=4	
 None of the above 	

1: Scientific notation for float number 0.0001234 is _____

6 Given s='Hello. How are you?', which of the following expression will return 'How'?
 s[8:10] s[7:10] s[7:9]
7: Which of the following will result in True?
 '0x12'.isdigit() '12.0'.isdigit() '012'.isdigit() '1.2e01'.isdigit()
8: Which function should be used to change 'how are you?' to 'How Are You?',
capitalize()title()lower()upper()
9: Which symbol is not defined as a string operator?
 + - * None of these
10: The find('H') function over a string 'TutorialsTeacher' will return
• 7 • 0 • -1 • 8

Assignment -3:-

1 •	Logical		operator	returns	True	if
т.	Logical	AND	operator	i etui iis	Huc	11

- Both operands are true
- Either operand is true
- Both operands are false
- None of the above

2: Which of the following operators checks the equality of two operands?

- =
- ==
- Both
- None

3: Operands of the logical operator may be of which type?

- Numeric
- Boolean
- String
- All of the above

4: Which of the following statements will be executed by Python interpreter without error?

- if age>=18
- if age=18:
- if age>=18:
- none of the above

- 5: Which of the following statements is not true?
 - It is necessary to use 'else' whenever 'if' is used in a program.
 - All statements in a block have the same indent.
 - An indented block should be started after: symbol.
 - All statements are true.

- 6: Which of the following statements is true regarding the body of the loop?
 - It is a block of one or more statements.
 - Statements in the block have the similarly increased indent
 - It is executed for each iteration
 - All of the above
- 7: Which of the following Python objects is not iterable?
 - String
 - Dictionary
 - Number
 - Tuple
- 8: The range(5) function generates which of following sequence of numbers:
 - 0,1,2,3,4
 - 1,2,3,4,5
 - 1,2,3,4
 - 0,1,2,3,4,5

9: What will be the output of the following code?

```
for char in 'Hello':
    print (char,end=",")
```

- Hello
 H,e,I,I,o
 o,I,I,e,H
 Error
- 10: The else keyword can be used along with which of the following?
 - for
 while
 if
 all of the above

Assignment -4:-

1: What will be the output of the following code?

```
a=10def myfunction():
    a=20
    returnprint('a=',a)
```

- a=20
- a=10
- Syntax error
- Value error
- 2: What is not true about formal and actual parameters?
 - Their Number and type must match
 - Need not be given in same order
 - Their names must be identical
 - All statements are true
- 3: In Python, functions are
 - Always called by passing reference
 - Always called by passing value
 - May be called by passing reference or value
 - None of these
- 4: Variable used inside a function become its
 - Local variable
 - Global variable
 - Reference variable
 - None of these

5: What is true about the docstring of a function?
 It is a string written as the first line in function block. It can be written in single, double, or triple quotes. It is ignored by the interpreter. All of the above.
6: What are the dunder (magic) methods in Python?
 Methods that start with a double underscore. Methods that start and end with a double underscore Methods that start with a single underscore Methods that start and end with a single underscore
7: What is true about theinit() method?
 It is a constructor It is a magic method It callsnew() method All of the above
8: Thenew() method
 Creates a new object Initializes instance variables Both a and b acts as constructor
9: Theadd() method
 Returns addition of two numbers Overloads + operator Should be overridden to overload + operator B and c
10: In order to overload == operator, which magic method must be overridden?
comp()eq()equal()ne()

Assignment -5:-

1: Python modules are stored in which type of file?

•	.txt file
•	.md file
•	.py file
•	.python

2: Which of these is not a built-in module in Python distribution?

- math
 os
 random
 pi
- 3: Built-in modules in Python are written in
 - C
 C++
 Python
 Java
- 4: What will print (randrange(1,10)) statement do?
 - Prints numbers from 1 to 10
 - Print numbers 1 to 10 in random order
 - Prints any one number from 1 to 9 selected randomly
 - Print numbers from 1 to 9
- 5: Which of the following statement is incorrect?

- log() function returns natural logarithm of a number
- log10() function returns the standard logarithm of a number
- log10() function returns log value of 10
- all statements are incorrect

6:The following is an example of _____.

```
def getcol(x):
    for i in range(x):
       yield i
```

- Void Function
- Generator function
- Iterator function
- Yield function

7: What will be the output of the following code?

```
import collections
c=collections.Counter([1,2,2,3,3,4,4,4,4,5])print(c.most_common(1))
```

```
• [(4, 4)]
[(2, 2)]
• [(4, 4), (2, 2)]
```

Error

8: Is the following class valid?

```
class Employee:
    empid=0
    name=""
    def __init__(id,name):
            empid=id
        name=name
```

```
Yes
```

No

9: A class may conta	Class	may	contain
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- attributes
- methods
- properties
- constructor
- instance attributes
- module
- package

10: What is TRUE about the class attributes?

- They are defined in the __init__() method.
- They can be defined inside any method.
- They are accessible by the name of the class.
- All of the above are true.

11: What is 'self' in Python?

- What is 'self' in Python?
- It is a keyword.
- It is a class attribute.
- It is a reference to an object which calls an instance method.
- It is a built-in function in Python

12: What is the name of the constructor method in the Python class?

__main__()
 __init__()
 __ctor__()
 None of the above

13: Which of the following statement is correct?

- Class attributes are the variables defined directly in the class that is shared by all objects of the class.
- Class attributes are the variables defined inside the class method.
- Class attributes are objects of the class.

None of the above

Assignment -6:-

- 1: The mechanism of designing a new class based on one or more existing classes is called:
 - Overriding
 - Inheritance
 - Polymorphism
 - None of these
- 2: What is overriding?
 - Overriding can occur in the case of inheritance of classes.
 - It is a process of redefining inherited method in child class
 - It is a magic method in Python
 - None of these
- 3: What kind of relationship exists between inherited class and base class?
 - IS A
 - HAS A
 - Both
 - None
- 4: What is not true about overriding in Python?
 - Redefining a base class method in the inherited class is called method overriding.
 - Overriding is the essential feature of object-oriented language.
 - The overridden methods must have the same number of arguments as the base class method of the same name.
 - All the above statements are true.

- 5: Instance variables and methods in the Python class are:
 - Private by default
 - Public by default
 - Protected by default
 - These terms are not applicable in Python.
- 6: Which of the following is not the built-in error type?
 - EOFError
 - IndexError
 - KeyError
 - LoopError
- 7: What type of error will be raised when the imported module is not found?
 - NullError
 - NameError
 - ImportError
 - ReferenceError
- 8: What will be the output of the following code?

- 5
- 0.0
- Error occurred
- ZeroDivisionError: division by zero

9: What will be the output of the following code?

- Except block
- Except block
- SyntaxError
- ValueError

10: Which of the following keyword is used to raise an error in Python?

- except
- raise
- throw
- throw Except()

Assignment -7:-

1: Which of the following is mutable?

- List
- String
- Tuple
- Set
- 2: A list can contain _____ elements.
 - Unlimited (depends on computer's memory)
 - 10000
 - 1 Million
 - 10 Million
- 3: What will be the output of the following code?

```
nums=list({1:'one',2:'two'})
print(nums)
```

- Syntax Error
- [1, 2]
- ['one', 'two']
- Runtime error
- 4: Which of the following is an invalid list object?
 - list("Hello")
 - [10, 1.234. 2+3j, 'Python']
 - [(1,2), (3,4)]
 - All are valid
- 5: The list.pop() function will
 - remove the first element from a list
 - remove the last element from a list
 - none will be removed
 - both will be removed

6: What will be the output of the following code?

```
s = set('Hello')
print(s)
```

```
Syntax error{"H', 'e', `l', `o'}{"H', 'e', `l', `l', `o'}
```

7: What will be the output of the following code?

```
s1={1,2,3,4,5}
s2={4,5,6,7,8}
print(s1-s2)
```

- {1,2,3}
- {8,6,7}
- Syntax error
- Runtime error

8: What will be the output of the following program?

```
s1={1,2,3,4,5}
s2={4,5,6,7,8}
print(s1|s2)
```

- {1, 2, 3, 4, 5}
- {4, 5, 6, 7, 8}
- {1, 2, 3, 4, 5, 6, 7, 8}
- Syntax error
- Runtime error

9: What will be the output of the following code?

```
>>> emp = {}
>>> type(emp)
```

```
• <class 'set'>
• <class 'dict'>
• <class ''>
• <class 'emp'>
```

10: How to convert a tuple to a set object?

Using set() method

- Using tuple() method
- Using type() method
- Using set.convert() method

Assignment -8:-

- 1: Which of the following statements is true?
 - Dictionary is a sequence of key-value pairs.
 - Dictionary is an indexed collection of key-value pairs.
 - Dictionary is an unordered collection of key-value pairs
 - None of these
- 2: Which of following objects is not a valid declaration for dictionary?
 - dict = {(1,2):10}
 dict={[1, 2]:10}
 dict={1:10}
 - None of the above
- 3: To delete a key value pair in dictionary, use _____.
 - del() method
 - pop() method
 - del keyword
 - remove()
- 4: The items() method of dictionary returns _____.
 - list of tuples
 - tuple of lists
 - tuple of tuples
 - list of lists
- 5: What will be the output of the following code?

```
nums = {"ONE":1, "TWO":2}print(nums["One"])
```

- 1
- "ONE"
- Syntax error

Runtime Error

6: years={1995:'Java', 1972:'C', 1994:'Python'} is a dictionary with key-value pairs of the year of invention and name of a language. The expression list(years) will return ______.

- list of years
- list of languages
- list of tuples each having year and language
- none of these

7: What will be the output of the following code?

```
years={1995:'Java', 1972:'C', 1994:'Python'}
print(years.get(2000))
```

- ValueError
- SyntaxError
- Blank output
- Java

Assignment -9:-

1: Which of the following modes are not valid for opening a file to read and write?

```
    r+
    w+
    wb+
    rw
```

2: which of the following built-in function is used to get the file object for a particular file?

```
file()object()open()read()
```

3: What does the following statement do?

```
f = open("C:\MyFile.txt", '+')
```

- Opening a file for appending texts.
- Opening a file for reading or writing.
- Opening a file for reading.
- Opening a file for writing texts.

4: What does the following code do?

```
f = open('C:\myfile.txt')
c = f.read()
```

- Reading a line from the myfile.txt.
- Reading content from the myfile.txt until EOF.
- Open the file and point to the first line of the myfile.txt.
- Reading binary file.

5:The rollback() method should be executed to _____.

- Undo effect of SQL query
- Reset table
- Delete all records in a table
- Sort rows in descending order

Assignment -10:-

1:	The	character	*	is	used	in	
		Cilai acci			4504		

- SELECT query
- Insert Query
- Delete query
- All of the above

2: Python DB-API

- Is a Python module
- Specification for database connectivity modules
- is used to access SQLite database
- None of these
- 3: What is a cursor in the context of database programming?
 - It is an indicator showing the current position for user interaction on a computer monitor.
 - It acts as a handle for a given SQL query using which records are traversed.
 - It stores the list of rows in a table.
 - None of these
- 4: Which of the following statements is true about connect() function
 - Creates a new database or opens the existing database
 - Is Function in SQLite3 module
 - Returns connection object
 - All of above
- 5: Commit() method should be executed to

- Finalize transactions
- Close database
- Close table
- Refresh data after execution of the query