**ASSIGNMENT-1**

1. There are some syntax errors in the displayed program. Of the options displayed, select the option which is the correct version of this program.

1. #The purpose of this

program is to display some text. #

2. print ("Hello World")

print ("Welcome to karnataka") Author kuvempu

3. #The purpose of this

#program is to display some text.

**Answer:** 1 & 3

2. Is the following statement true or false?

Dynamic Typing is a feature of Python.

**Answer**: True

3. Is the following statement true or false?

Python is a compiler-based language.

**Answer:** False

4. The result of 36%5 is:

**Answer:** 1

5. What will you see if you type 19-4\*5?

**Answer:** -1

6. What will you see if you type a = 12 \* 2?

**Answer:** 24

7. what will you see after you type print(a,b,b) and press Enter?

>>> a=2

>>>b=3

>>>print(a,b,b)

**Answer:** 2 3 3

8 .What is the scientific notation for the float number, 0.0000001234?

**Answer:** 1234\*10\*\*-7

9. Is this statement true or false?

The variable name, \_books is a valid name.

**Answer:** True

10. What will be result of following expression?

'KARNATAKASTATE' .lower() .isupper()

**Answer:** .lower() -> 'karnatakastate' , .isupper() -> True

11 . What is the result of the following statements?

>>> var=" KARNATAKASTATE "

>>> var.index("a")

**Answer:** It shows error like -> substring not found

12. Is this statement true or false?

A list object can contain a tuple as one of the items.

**Answer:** True

13. If L1=[[1,2],[3,4]] is a list, what will the following statements return the value, True?

[3,4] in L1

**Answer:** True

14. What is the correct method to delete a key-value pair in a dictionary?

**Answer:** deldict[“key1”]

15. Which of the following values cannot be used as key in a dictionary object?

[5,6j] , 123 , 23.5 , “pen”

**Answer:** [5,6j]

16. Consider the dictionary, years={1995:'Java', 1972:'C', 1994:'Python'}. Will both the following expressions return the same result?

>>>min(years)

>>>min(years.keys())

**Answer:** True

17. What is wrong with the following list?

buckettuple=[Get a tattoo, Try a new hair colour, share a meal with a stranger, learn salsa, learn pottery]

**Answer:** Put single(‘’) (or) double(“”) quotes

Correct format -> buckettuple=[“Get a tattoo, Try a new hair colour, share a meal with a stranger, learn salsa, learn pottery”]

18. Is the following list valid?

pages=[11, 13, 15, (37, 21, 43), 17, 19, 21]

**Answer:** Valid

19. Which quotes would you use for the following string and why?

Oh you may not think I'm pretty,

But don't judge on what you see,

I'll eat myself if you can find

A smarter hat than me.

You can keep your bowlers black,

Your top hats sleek and tall,

For I'm the Hogwarts Sorting Hat And I can cap them all.

• Single quotes (') because the string contains single quotes within it.

• Double quotes (") because the string contains single quotes within it.

• Double quotes (") because the string contains multiple lines.

• Triple quotes (""" or ''') because the string contains single quotes within it.

• Triple quotes (""" or ''') because the string contains multiple lines.

**Answer:** Double quotes (") because the string contains single quotes within it.

20. Given s='Hello. How are you?' which expression out of following will give the substring, ‘How’?

• s[8:10]

• s[7:10]

• s[7:9]

• s[7-9]

**Answer:** s[7:10]

21. Which of the following symbols is not defined as a string operator?

• +

• -

• \*

• []

**Answer:** (- )

22. Given s='Hello. How are you?' The result of the expression s.find('o') and s.index('o') will be same.

• True

• False

**Answer:** True

23. Is the following a valid sequence data type? Italian='pasta', 'pizza', 'ravioli', ' dal makhni', 'risotto'

• Yes, it is a tuple.

• No, because the items are not enclosed in brackets.

• Yes, it is a list.

• No, because 'dal makhni' does not belong to Italian cuisine.

**Answer:** Yes, it is a tuple.

24. Which of following objects is not a valid declaration of a dictionary?

• {(1,2):10}

• {[1,2]:10}

• {len([1,2]):10}

**Answer:** {[1,2]:10}

25. What is the difference between a list and a dictionary?

• A dictionary uses keys to access values while a list uses index numbers.

• A dictionary does not support tuple data type but a list does.

• Dictionaries are an ordered collection while lists are unordered.

• Dictionaries are sequence data type while lists are collection data type.

**Answer:** A dictionary uses keys to access values while a list uses index numbers.

26. What is the correct syntax for accessing the value of the key "Facebook" in the following dictionary?

smedia={"Twitter": 140, "Facebook": "status", "Instagram": "photo", "Snapchat": "message", "Linkedin": "work"}

• get("Facebook")

• smedia.get("Facebook")

• smedia.get("status")

• get("smedia")

**Answer:** smedia.get("Facebook")

27. What is the result you will get when you run the following code?

>>>sample={3+2j: "complex", 5j: "complex", 19+2j: "complex", 18.1: "float"}

>>>sample

• Error because complex numbers are not supported by the dictionary object.

• {18.1: "float"} because only the valid item is retained.

• {(3+2j): 'complex', 5j: 'complex', (19+2j): 'complex', 18.1: 'float'}

**Answer:** {(3+2j): 'complex', 5j: 'complex', (19+2j): 'complex', 18.1: 'float'}

28. Given the following dictionary object, what is the correct syntax for modifying the value of the key, "Twitter" to 280?

smedia={"Twitter": 140, "Facebook": "status", "Instagram": "photo", "Snapchat": "message", "Linkedin": "work"}

>>>smedia.get("Twitter")

>>>"Twitter":280

• smedia[140:280]

• smedia["Twitter"]=280

• {"Twitter": 280}

**Answer:** smedia["Twitter"]=280

29. For each of the statements displayed below, write the code that will display the required result for the given dictionary.

villians={1:"magneto", 2:"Joker", 3:"Doctor Doom", 5:"Lex Luthor", 9:"Green Goblin", 6:"Loki"}

1. Display the length of the dictionary

**Answer:** 6

1. Display the key which has the least value.

**Answer:** 3

1. Display the value of the key 9 as well as delete it simultaneously.

**Answer:** Green Goblin, delete-> del villians[9]

1. Display all the values in dictionary.

**Answer:** dict\_values(['magneto', 'Joker', 'Doctor Doom', 'Lex Luthor', 'Loki'])

5. Delete all the elements in the dictionary while retaining the empty object.

**Answer:** villians.clear()

30. How to convert string to set? Give example.

**Answer:**  s1={"karnataka"}

31. Set function to add multiple items

**Answer:** we can’t add multiple items at the same time.

32. s1={34,Iindia”,76.5,”Bangalore”}

s2= {“India”, Mangalore”, 5+2j,34}

s1|s2 , s1&s2 , s1-s2 , s1^s2

**Answer:** Itshows syntax error

33. All the file functions covered in the course?

**Answer:** Yes, You covered all the file functions.

34. There are three kinds of mode, that Python provides and how files can be opened. What are those different modes?

**Answer:** r(read only), w(write only-overwrite or create new), a(append)

35. If you want write into file w/t using f.close(), how would you do?

**Answer:** file1=open(“myfile.txt”,”w+”)

file1.close()