Software Design
demo

Code:	rn8

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

```
minidict = { 'name': 'TutorialsPoint', 'name': 'website'}
print(minidict['name'])
```

    1. TutorialsPoint
    2. Website
    3. ('TutorialsPoint', 'website')
    4. It will show an Error.

2. What is the output of the code?

```
def f():
    try:
        return(1)
    finally:
        return(2)
k=f()
print(k)
```

1. 1 2
2. 2 1
3. 2
4. Error

3. What happens in the below code?

```
class A:
    def __init__(self, i=100):
        self.i=i
class B(A):
    def __init__(self,j=0):
        self.j=j
def main():
    b= B()
    print(b.i)
    print(b.j)
main()
```

1. Class B inherits all the data fields of class A.
2. Class B needs an Argument.
3. The data field 'j' cannot be accessed by object b.
4. Class B is inheriting class A but the data field 'i' in A cannot be inherited.

4. Is the following Python code valid?

```
try:
    # Do something
except:
    # Do something
finally:
    # Do something
```

1. no, there is no such thing as finally
2. no, finally cannot be used with except
3. no, finally must come before except
4. yes

5. Which of the following function of dictionary gets all the keys from the dictionary?

1. getkeys()

2. key()
3. keys()
4. None of the above.

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

   print(**type**(1/2))

   1. <**class** `'float'`>
   2. <**class** `'int'`>
   3. NameError: `'1/2'`**is not** defined.
   4. 0.5

7. What is the following function reverses objects of list in place?

   1. **list** .reverse()
   2. **list** .sort([func])
   3. **list** .pop(obj=**list**[−1])
   4. **list** .remove(obj)

8. What is the output of **print str** ∗ 2 **if str** = `'Hello World!'`?

   1. Hello World!Hello World!
   2. Hello World! ∗ 2
   3. Hello World!
   4. None of the above.

9. Which of the following function sets the integer starting value used in generating random numbers?

   1. choice(seq)
   2. randrange ([start ,] stop [, step])
   3. random()
   4. seed([x])

10. Pylab is a package that combine _____, _____ and _____ into a single namespace.

    1. Numpy, scipy and matplotlib
    2. Numpy, matplotlib and pandas
    3. Numpy, pandas and matplotlib
    4. Numpy, scipy and pandas

11. What is the following function inserts an object at given index in a list?

    1. **list** .index(obj)
    2. **list** . insert (index, obj)

3. **list** .pop(obj=**list**[−1])
4. **list** .remove(obj)

12. Analyze the code:

```
print("Recursive Function")
def factorial(n):
    return(n*factorial(n-1))
factorial(4)
```

1. Recursive Function 24.
2. Recursive Function.
3. Function runs infinitely and causes a StackOverflowError.
4. Syntax Error.

13. What should be given in range of the given below code to print nothing in output?

```
for i in range(?):
    print(i)
```

1. 0.1
2. 0
3. NULL
4. 1

14. Essential thing to create a window screen using tkinter Python?

1. call tk() function
2. create a button
3. To define a geometry
4. All of the above

15. What is output of following code:

```
num=3
while True:
    if (num%0o12 == 0):
        break
print(num)
num += 1
```

1. 3 4 5 6 7 8 9 10 11 12
2. 3 4 5 6 7 8 9
3. 3 4 5 6 7 8 9 10 11
4. None of the above

16. What is the output of **print str**[2:5] **if str** = 'Hello World!'?

1. llo World!

2. H
3. llo
4. None of the above.

17. Name the error that doesn't cause program to stop/end, but the output is not the desired result or is incorrect.

    1. Syntax error
    2. Runtime error
    3. Logical error
    4. All of the above

18. How many except statements can a try-except block have?

    1. zero
    2. one
    3. more than one
    4. more than zero

19. What is the output of **print** tinylist $*$ 2 **if** tinylist $=$ [123, 'john']?

    1. [123, 'john', 123, 'john']\ lstinline
    2. [123, 'john'] $*$ 2\ lstinline
    3. Error
    4. None of the above.

20. What will be the output of the following Python code?

```
try:
    if '1' != 1:
        raise "someError"
    else:
        print("someError has not occurred")
except "someError":
    print ("someError has occurred")
```

    1. someError has occurred
    2. someError has **not** occurred
    3. invalid code
    4. none of the mentioned