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1 Python Program to Reverse a Given Number

2 Python Program to Print an Inverted Star Pattern

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3 What is the output of the following?

```
x = ['ab', 'cd']
```

```
for i in x:
```

```
    i.upper()
```

```
print(x)
```

a) ['ab', 'cd']

b) ['AB', 'CD']

c) [None, None]

d) none of the mentioned

4 What is the output of the following?

```
x = "abcdef"
```

```
i = "a"
```

```
while i in x:
```

```
    x = x[:-1]
```

```
    print(i, end = " ")
```

a) i i i i i i

b) a a a a a a

c) a a a a a

d) none of the mentioned

5 What is the output of the following?

```
x = 'abcd'
```

```
for i in range(len(x)):
```

```
    x = 'a'
```

```
    print(x)
```

a) a

b) abcd abcd abcd

c) a a a a

d) none of the mentioned

6 What is the output of the following?

```
for i in ".join(reversed(list('abcd'))):
```

```
    print (i)
```

a) a b c d

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- b) d c b a
- c) error
- d) none of the mentioned

7 What is the output of the following?

```
for i in range(10):
```

```
    if i == 5:
```

```
        break
```

```
    else:
```

```
        print(i)
```

```
else:
```

```
    print("Here")
```

- a) 0 1 2 3 4 Here
- b) 0 1 2 3 4 5 Here
- c) 0 1 2 3 4
- d) 1 2 3 4 5

8 What is the output of the following?

```
string = "my name is x"
```

```
for i in ' '.join(string.split()):
```

```
    print (i, end=" ", "
```

- a) m, y, , n, a, m, e, , i, s, , x,
- b) m, y, , n, a, m, e, , i, s, , x
- c) my, name, is, x,
- d) error

9 What is the output of the following?

```
print('*', "abcde".center(6), '*', sep="")
```

- a) * abcde *
- b) * abcde *
- c) *abcde *
- d) * abcde*

10 What is the output of the following?

```
print("abc. DEF".capitalize())
```

- a) abc. def
- b) ABC. DEF
- c) Abc. def
- d) Abc. Def

11 What is the output of the following?

```
print('a@ 1'.islower())
```

- a) True

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- b) False
- c) None
- d) Error

12. Which of the following is modes of both writing and reading in binary format in file.?

- a) wb+
- b) w
- c) wb
- d) w+

13. 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

14. Which of the following is not a valid namespace?

- a) Global namespace
- b) Public namespace
- c) Built-in namespace
- d) Local namespace

15. Which of the following can be used to create a symbolic link?

- a) os.symlink()
- b) os.symb_link()
- c) os.symblin()
- d) os.ln()

16. Overriding means changing behavior of methods of derived class methods in the base class. Is the statement true or false?

- a) True
- b) False

17 What is the output of the following piece of code?

```
class A:
    def one(self):
        return self.two()
    def two(self):
        return 'A'
class B(A):
    def two(self):
        return 'B'
obj2=B()
print(obj2.two())
```

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- a) A
- b) An exception is thrown
- c) A B
- d) B

18. Which function overloads the // operator?

- a) `__flrdiv__()`
- b) `__ceildiv__()`
- c) `__floordiv__()`
- d) `__truediv__()`

19 What is the output of the following piece of code?

```
class A:
    def __init__(self):
        self._x = 5
class B(A):
    def display(self):
        print(self._x)
def main():
    obj = B()
    obj.display()
main()
```

- a) Error, invalid syntax for object declaration
- b) Nothing is printed
- c) 5
- d) Error, private class member can't be accessed in a subclass

20. Which of the following blocks will be executed whether an exception is thrown or not?

- a) `except`
- b) `else`
- c) `finally`
- d) `assert`

21 What is the output of the following piece of code?

```
def test(i,j):
    if(i==0):
        return j
    else:
        return test(i-1,i+j)
print(test(4,7))
```

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- a) 13
- b) 7
- c) Infinite loop
- d) 17

22 What is the output of the following piece of code?

```
def fun(n):  
    if (n > 100):  
        return n - 5  
    return fun(fun(n+11));  
print(fun(45))
```

- a) 50
- b) 100
- c) 74
- d) Infinite loop

23 What is the output of the following code?

```
class fruits:  
    def __init__(self):  
        self.price = 100  
        self.__bags = 5  
    def display(self):  
        print(self.__bags)  
obj=fruits()  
obj.display()
```

- a) The program has an error because display() is trying to print a private class member
- b) The program runs fine but nothing is printed
- c) The program runs fine and 5 is printed
- d) The program has an error because display() can't be accessed

24. What is the output of the code shown below?

```
def f1(a,b=[]):  
    b.append(a)  
    return b  
print(f1(2,[3,4]))
```

- a) [3,2,4]
- b) [2,3,4]
- c) Error
- d) [3,4,2]

25. What is the output of the following piece of code?

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class stud:

 'Base class for all students'

 def __init__(self, roll_no, grade):

 self.roll_no = roll_no

 self.grade = grade

 def display (self):

 print("Roll no : ", self.roll_no, ", Grade: ", self.grade)

print(student.__doc__)

a) Exception is thrown

b) __main__

c) Nothing is displayed

d) Base class for all students