Variable & Math Calculations

1. Circle variable names which are not legal in Python. Explain why?

1)

print(type(15))

Output: <class 'int'>

2. For the following questions, if it has errors or cannot be executed, write "Error", otherwise write the result of the output.

```
2)
        print(type("hello") )
                                Output: <class 'str'>
3)
        hello =12
print(type(hello) )
                                Output: <class 'int'>
4)
        print(type(True) )
                                Output: <class 'bool'>
5)
        print(type(5.5) )
                                Output: <class 'float'>
        print(type(12//27))
                                Output: <class 'int'>
6)
7)
        print(type(3/27))
                                Output: <class 'float'>
8)
        print(type(2.0/1))
                                Output: <class 'float'>
        a = str((-4 + abs(-5) / 2 ** 3) + 321 - ((64 / 16) % 4) ** 2)
9)
print(type(a))
                        Output: <class 'str'>
10)
        print(type((int)"5.1"))
                                Output: Error
11)
                                Output: <class 'float'>
        print(type((float)(5)))
12)
        print(type((int)(5.1)))
                                Output: <class 'int'>
                                Output: <class 'str'>
13)
        print(type((str)(5)))
14)
        print(type((str)(5.1)))
                                Output: <class 'str'>
                                        Output: <class 'float'>
15)
        print(type((float)("5.1")))
16)
        print(13 + 6)
                                Output: 19
17)
        print(2 ** 3)
                                Output: 8
18)
        print 2 * (1 + 3)
                                Output: invalid syntax
        print ( "Hello" / 123)
19)
                                Output Error
20)
        print(3 / 9)
                                        21)
        print(3 // 9)
                                Output: 0
22)
        print("13" + "6")
                                         Output: 136
23)
        print("Hi" + 5)
                                Output: Error
24)
        print("Hi", 5)
                                Output: Hi 5
25)
        print("13" + 6)
                                Output: Error
26)
        print(5 + 7)
                                        Output: 12
27)
        print(16**(1/2))
                                        Output: 4.0
28)
        print(8**(1//3))
                                         Output: 1
```

```
29)
       a = (3+4+21) / 7
                               Output: 4.0
print (a)
       b = (9*4) / (2+1) - 6
30)
print(b)
b = b+5
                       Output: 6.0, 11.0
print(b)
31)
       num1 = 6
num2 = 15
sum = num1 + num2
num2 = 4
print(number2, sum) Output: Error: name 'number2' is not defined (if number2 was changed to num2
then the answers would be: 4 21)
32)
       x = 7
x = 15
print (x)
                               Output: 15
33)
       y = 8
3 = y
print (y)
                               Output: Error
34)
       1stNum = 9
2ndNum = 2.5
print ( 1stNum ** 2ndNum) Output: Error
35)
       num = 5
word = "La- "
print (word * num)
                               Output: La- La- La- La-
36)
       x = 3
y = 10
y = x
print("values are: ", x, y)
                               Output: values are: 3 3
       delimiter = '.'
37)
print (delimiter *5)
                               Output: . . . .
```