```
Question 1:
Guess the output of this program:
   1. print('abc dbe'.split('b'))
       0
       ['a', 'cd', 'e']
       0
       ['a', 'c d', 'e']
       ['a', 'c', 'd', 'e']
Question 2:
Guess the output of this program:
   1. print('abc dbe'.split('db'))
       ['abc ', 'e']
       ['abc e']
Question 3:
Guess the output of this program:
   1. print('abc dbe'.split('dbx'))
       'abc dbe'
       0
       ['abc dbe']
Question 4:
Guess the output of this program:
   1. print(','.join('A#B#C'.split('#')))
       0
       A#B#C
       A,B,C
       \bigcirc
```

Error

```
Question 5:
For input:
5,,,2,3
   1. items = tuple(sorted(map(int, input().replace(',', ' ').split())))
   2. print(items[0]*items[1] + items[2])
What is the output?
       0
       17
       0
       13
       0
       11
Question 6:
Guess the output of this program:
   1. print('{}*{} = {}', 2, 3, 2*3)
       2*3 = 6
       0
       Something else
{}^{*}{} = {} 2 3 6 .format is missing
Question 7:
These 2 lines will print the same results?
   1. print('%d*\%d = %d' \% (2, 3, 2*3))
   2. print('{}*{} = {}'.format(2, 3, 2*3))
       True
       0
       False
Question 8:
Guess the output of this program:
   1. num1, num2 = 2, 3
   2. res = num1 * num2
   3. print('{num1}*{num2} = {result}'.format(num1=num1, num2=num2, res = result))
```

```
0
       Error
       0
       2*3 = 6
print('{num1}*{num2} = {result}'.format(num1=num1, num2=num2, result = res))
Question 9:
Guess the output of this program:
   1. my_lst = ['10', 3]
2. print('{lst[0]} * {lst[1]}'.format(lst = my_lst))
       0
       30
        0
       10 * 3
        '101010'
Question 10:
Guess the output of this program:
   1. i = 15
2. string = '{:4}|{:<8}|{:^6}'.format(i, i* i * i * i, i * i * i)
3. print(string.replace(' ', '*'))
        **15|***50625|*3375*
        **15|50625***|*3375*
        **15|*50625**|*3375*
Question 11:
Guess the output of this program:
    1. val = 13.123216789
    2. print('{:12.4f}'.format(val).replace(' ', '*'))
        *****13.1232
       ***13.1232
```

```
***13.123217
Question 12:
Guess the output of this program:
   1. class Student:
          def __init__(self, name, id):
   3.
              self.name, self.id = name, id
   4.
   5.
          def __repr__(self):
              return f'Student({self.name}, {self.id})'
   8. most = Student('mostafa', '1112KS1')
   9. print(f'{most}')
       0
       Student(mostafa, 1112KS1)
       0
       <__main__.Student object at 0x7fc58fb59390>
Question 13:
Guess the output of this program:
   1. print('{0}{0}{0}'.format(1, 2, 3))
       123
       0
       111
Question 14:
Guess the output of this program:
   1. string = 'Hey'
   2. string[1] = string[1].upper()
       HEy
       Error
```

string is immutable

Question 15:

Background:

- is newline handled the same in different OSes? No, due to historical reasons. Here is an initial informal specification
- \n is used for linux
- \r\n for windows
- \r for (old) mac
- Reading: https://stackoverflow.com/questions/1761051/difference-between-n-and-r
<pre>1. print('H\rey\r\nHow\n\n\nAre\tyou?'.splitlines())</pre>
<pre>['H', 'ey', 'How', '', '', 'Are\tyou?']</pre>
['H', 'ey', 'How', 'Are\tyou?']
['Hey', 'How', 'Are\tyou?']
Question 16: Guess the output of this program: 1. print(f"Hey {'\n'} Mostafa")
. 0
Error
Hey \n Mostafa
. c
Hey Mostafa
SyntaxError: f-string expression part cannot include a backslash
<pre>Question 17: Guess the output of this program: 1. line = '\n' 2. print(f"Hey {line} Mostafa")</pre>
• C Hey

Mostafa

• Hey \n Mostafa

Question 18:

Background: Python **raw string** is created by prefixing a string literal with 'r' or 'R'. Python raw string treats backslash (\) as a literal character. This is useful when we want to have a string that contains backslash and don't want it to be treated as an escape character.

Guess the output of this program:

```
1. print(r"Hey \n Mostafa")
```

• Hey \n Mostafa

Hey
Mostafa

Question 19:

The output of this program is:

mostafa has salary 100

?

```
1. class Employee:
2.    def __init__(self):
3.        self.name = 'mostafa'
4.        self.salary = 100
5.
6.    def __str__(self):
7.        return '{0.name} has salary {0.salary}'.format(self)
8.
9. print(Employee())
```

True

• C False

Question 20:

Guess the output of this program:

```
1. string = 'hello world'
2. print(string.endswith(("wor", "rld", 'hello '), 6))
```

Consider the endswith documentation

```
1. def endswith(self, suffix, start=None, end=None):
2.
3.
       S.endswith(suffix[, start[, end]]) -> bool
4.
5.
       Return True if S ends with the specified suffix, False otherwise.
       With optional start, test S beginning at that position.
6.
       With optional end, stop comparing S at that position.
7.
       suffix can also be a tuple of strings to try.
8.
9.
   \mathbf{O}
   True
```

. 0

False

. 0

Error

We can pass multiple strings to check at once in a tuple. The used S at position 6 is world

Question 21:

Guess the output of this program:

```
1. print("{:07}".format(123))
```

. 0

Error

- 0

0000123

0

123

Question 22:

Guess the output of this program:

```
1. print('{:011.1f}'.format(123.17))
```

- 0
 - 123.1700000
- 0
 - 0123.170000
- - 000000123.2
- 0
 - 000000123.1