• Develop a program that accept the list and iterates over a list of numbers lst and prints the numbers in the list whose square is divisible by 8.

```
num_list = [2, 3, 5, 7, 8, 9, 12, 16]

for num in num_list:
   if (num * num) % 8 == 0:
        print(num)

   8
   12
   16
```

• Develop a program that illustrates: SyntaxError, IndexError, ValueError, TypeErrorin a statement.

SyntaxError: Raised when the parser encounters a syntax error.

IndexError: Raised when a index or subscript in a sequence is out of range.

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```
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                                                                  X
    ----> 3 num list[8]
    IndexError: list index out of range
    SEARCH STACK OVERFLOW
ValueError: An error caused by an illegal value.
int('67.5')
    ______
    ValueError
                                        Traceback (most recent call
    last)
    <ipython-input-12-e582b2395acc> in <module>
    ----> 1 int('67.5')
   ValueError: invalid literal for int() with base 10: '67.5'
    SEARCH STACK OVERFLOW
a='67.5'
type(a)
    str
TypeError: An error caused by incorrect operand types.
a = 2
b = 'DataCamp'
a + b
    TypeError
                                        Traceback (most recent call
    last)
    <ipython-input-15-86a706a0ffdf> in <module>
         1 a = 2
         2 b = 'DataCamp'
    ---> 3 a + b
   TypeError: unsupported operand type(s) for +: 'int' and 'str'
    SEARCH STACK OVERFLOW
a = 's'
b = 'd'
a + b
    'sd'
```

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