```
In [1]: x = [1, 2, 3, 4]
         y = filter(lambda a: a % 2 == 0, x)
         print(list(y))
        [2, 4]
In [5]: list1 = ['a', 'b', 'g', 1, 5]
         print(list1.pop) #cause pop is a function should be end with()
        <built-in method pop of list object at 0x0000028E33B6D700>
In [7]: print(int(3.9))
        3
In [9]: a = 'Python' + ".py"
         print(a)
        Python.py
In [13]: print(str(True), end=" ") # This will print "True" followed by a space.
         int("4.5") # This will raise a ValueError because "4.5" is not a valid integer
        True
        ValueError
                                                 Traceback (most recent call last)
        Cell In[13], line 2
              1 print(str(True), end=" ") # This will print "True" followed by a space.
        ---> 2 int("4.5") # This will raise a ValueError because "4.5" is not a valid i
        nteger string.
       ValueError: invalid literal for int() with base 10: '4.5'
In [17]: name = 'Hello, world!'
         print(name[1:5])
        ello
In [19]: set1 = \{1, 5, 6, 4, 3\}
         print(set1)
        {1, 3, 4, 5, 6}
In [21]: print(type(0xFF))
       <class 'int'>
In [23]: aTuple = (1, 'Jhon', 1+3j)
         print(type(aTuple[2:3]))
        <class 'tuple'>
In [25]: print(bool(0), bool(3.14159), bool(-3), bool(1.0+1j))
       False True True True
In [32]: x = 10
         y = "20"
         print(x + int(y))
```

```
In [34]: x = {"apple", "banana", "cherry"}
         print(type(x))
        <class 'set'>
In [36]: x = {"name": "John", "age": 30}
         print(type(x))
        <class 'dict'>
In [38]: x = [1, 2, 3]
         print(type(x))
        <class 'list'>
In [42]: x = 10
         y = "20"
         print(str(x) + y)
        1020
In [44]: x = [1, 2, 3]
         y = x \cdot copy()
         x.append(4)
         print(y)
        [1, 2, 3]
In [46]: x = \{"a", "b", "c"\}

y = \{"b", "c", "d"\}
         z = x & y
         print(z)
        {'c', 'b'}
In [48]: x = 10
         y = 20
         x, y = y, x
         print(x, y)
        20 10
In [50]: x = {"a": 1, "b": 2}
         y = {"b": 3, "c": 4}
         z = {**x, **y}
         print(z)
        {'a': 1, 'b': 3, 'c': 4}
In [52]: x = \{1, 2, 3\}
         x.clear()
         print(x)
        set()
In [54]: x = "hello"
         y = x.upper()
         print(y)
        HELLO
In [58]: x = "hello"
         y = x.replace("1", "L", 1)
```

```
print(y)
        heLlo
In [60]: x = (1, 2, [3, 4])
         x[2][0] = 5
         print(x)
        (1, 2, [5, 4])
In [62]: x = {"name": "John", "age": 30}
         print(x["address"])
        KeyError
                                                   Traceback (most recent call last)
        Cell In[62], line 2
          1 x = {"name": "John", "age": 30}
        ----> 2 print(x["address"])
        KeyError: 'address'
In [64]: x = [1, 2, 3]
         y = x[:]
         x[0] = 4
         print(y)
        [1, 2, 3]
 In [2]: x = {"name":"john", "age":30}
         y = x \cdot copy()
         x["name"] = "jane"
         print(y["name"])
        john
 In [4]: x = {"apple", "banana", "cherry"}
         y = x.pop()
         print(y)
        cherry
 In [6]: x = [1, 2, 3]
         x.insert(1, 4)
         print(x)
        [1, 4, 2, 3]
 In [8]: x = {\text{"a", "b", "c"}}
         y = x - {"b"}
         print(y)
        {'c', 'a'}
In [10]: x = \{1,2,3\}
         y = x.add(4)
         print(x)
        {1, 2, 3, 4}
In [12]: age = 25
         print(age)
```

```
In [16]: number = 20
        print(20 - 1)
In [18]: firstname = 'code'
         surename = 'chef'
         print('code','chef')
        code chef
In [20]: a = 23
         b = 20
         sum = a + b
         print(sum)
        43
In [24]: length = 45
         breath = 76
         Area_of_rectangle = length * breath
         print(Area_of_rectangle)
        3420
In [26]: radius = 8.9
         pi = 3.14
         Area_of_circle = pi * radius * radius
         print(Area_of_circle)
        248.719400000000004
 In [ ]: a = 'Learning'
         b = 'is fun!'
         print
```