Tolgahan Toros Homework-1
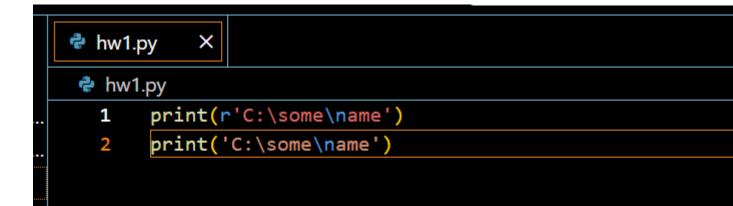
```python
tax = 12.5 / 100
price = 100.50
print(price * tax)
```

```
PS C:\Users\tolga\Desktop\machinelaering\hw1> py .\hw1.py
12.5625
PS C:\Users\tolga\Desktop\machinelaering\hw1>
```

```python
s = 'First line.\nSecond line.'
print(s)
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\tolga\Desktop\machinelaering\hw1> py .\hw1.py
First line.
Second line.
```

```python
print(r'C:\some\name')
print('C:\some\name')
```

```
PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

PS C:\Users\tolga\Desktop\machinelaering\hw1> py .\hw1.py
C:\some\name
```

```python
letters = ['a', 'b', 'c', 'd', 'e', 'f', 'g']
print(letters)
letters[2:5] = ['C', 'D', 'E']
print(letters)
letters[2:5] = []
print(letters)
letters[:] = []
print(letters)
```

```
PS C:\Users\tolga\Desktop\machinelaering\hw1> py .\hw1.py
['a', 'b', 'c', 'd', 'e', 'f', 'g']
['a', 'b', 'C', 'D', 'E', 'f', 'g']
```

```python
a, b = 0, 1
while a < 1000:
    print(a, end=',')
    a, b = b, a+b
```

PS C:\Users\tolga\Desktop\machinelaering\hw1> py .\hw1.py
0,1,1,2,3,5,8,13,21,34,55,89,144,233,377,610,987,

```python
for n in range(2, 10):
    for x in range(2, n):
        if n % x == 0:
            print(n, 'equals', x, '*', n//x)
            break
    else:
        # loop fell through without finding a facto
        print(n, 'is a prime number')
```

PS C:\Users\tolga\Desktop\machinelaering\hw1> py .\hw1.py
2 is a prime number

```python
t = 12345, 54321, 'hello!'
t[0]
print(t)
u = t, (1, 2, 3, 4, 5)
print(u)
v = ([1, 2, 3], [3, 2, 1])
print(v)
```

```
PS C:\Users\tolga\Desktop\machinelaering\hw1> py .\hw1.py
(12345, 54321, 'hello!')
```

```python
basket = {'apple', 'orange', 'apple', 'pear', 'oran
print(basket)
a = set('abracadabra')
b = set('alacazam')
print(a)
print(a-b)
print(a|b)
print(a & b)
print(a ^ b )
```

```
PS C:\Users\tolga\Desktop\machinelaering\hw1> py .\hw1.py
{'apple', 'orange', 'pear', 'banana'}
{'d', 'b', 'r', 'a', 'c'}
```

```
Microsoft Windows [Version 10.0.22631.2506]
(c) Microsoft Corporation. Tüm hakları saklıd

C:\Users\tolga>python
Python 3.11.6 (tags/v3.11.6:8b6ee5b, Oct  2 2
Type "help", "copyright", "credits" or "licen
>>> tel = {'jack': 4098, 'sape': 4139}
>>> tel['guido'] = 4127
>>> tel
{'jack': 4098, 'sape': 4139, 'guido': 4127}
>>> tel['jack']
4098
>>> del tel['sape']
>>> tel['irv'] = 4127
>>> tel
{'jack': 4098, 'guido': 4127, 'irv': 4127}
>>> list(tel)
['jack', 'guido', 'irv']
>>> sorted(tel)
['guido', 'irv', 'jack']
>>> 'guido' in tel
True
>>> 'jack' not in tel
False
>>>
```

```python
knights = {'gallahad': 'the pure', 'robin': 'the b
for k, v in knights.items():
    print(k, v)
```

PS C:\Users\tolga\Desktop\machinelaering\hw1> py .\hw1.py
gallahad the pure

```
Windows PowerShell              ×      +   ∨

PS C:\Users\tolga> python
Python 3.11.6 (tags/v3.11.6:8b6ee5b, Oct  2 2023,
Type "help", "copyright", "credits" or "license" f
>>> print('We are the {} who say "{}!"'.format('kn
We are the knights who say "Ni!"
>>> print('{0} and {1}'.format('spam', 'eggs'))
spam and eggs
>>> print('{1} and {0}'.format('spam', 'eggs'))
eggs and spam
>>> print('This {food} is {adjective}.'.format(foo
This spam is absolutely horrible.
>>> print('The story of {0}, {1}, and {other}.'.fo
The story of Bill, Manfred, and Georg.
>>> table = {'Sjoerd': 4127, 'Jack': 4098, 'Dcab':
>>> print('Jack: {0[Jack]:d}; Sjoerd: {0[Sjoerd]:d
Jack: 4098; Sjoerd: 4127; Dcab: 8637678
>>>
```

```python
class Dog:

    kind = 'canine'

    def __init__(self, name):
        self.name = name

d = Dog('Fido')
e = Dog('Buddy')
print(d.kind)
print(e.kind)
print(d.name)
print(e.name)
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

PS C:\Users\tolga\Desktop\machinelaering\hw1> py .\hw1.py
canine
```

```python
class Dog:

    tricks = []

    def __init__(self, name):
        self.name = name

    def add_trick(self, trick):
        self.tricks.append(trick)

d = Dog('Fido')
e = Dog('Buddy')
d.add_trick('roll over')
e.add_trick('play dead')
print(d.tricks)
```

```
PS C:\Users\tolga\Desktop\machinelaering\hw1> py .\hw1.py
['roll over', 'play dead']
```

```python
class Dog:

    def __init__(self, name):
        self.name = name
        self.tricks = []

    def add_trick(self, trick):
        self.tricks.append(trick)

d = Dog('Fido')
e = Dog('Buddy')
d.add_trick('roll over')
e.add_trick('play dead')
print(d.tricks)
print(e.tricks)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\tolga\Desktop\machinelaering\hw1> py .\hw1.py
['roll over']
['play dead']

```python
class B:
    def f(self, x):
        return x * 2
class A(B):
    def f(self, x):
        return x ** 2
def main():
    instance_of_A = A()
    result = instance_of_A.f(2)
    print("A sınıfındaki f(2) değeri:", result)

if __name__ == "__main__":
    main()
```