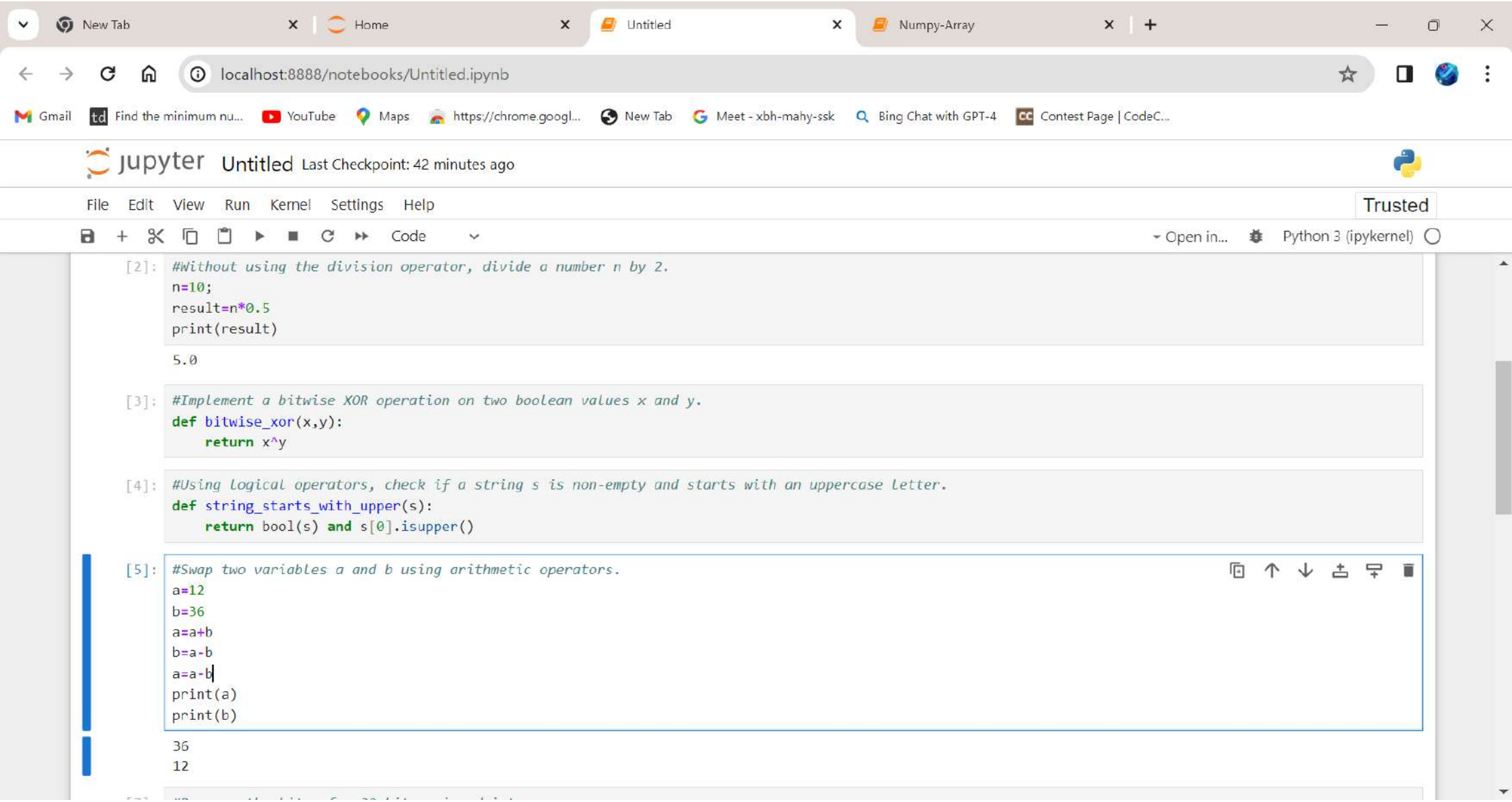
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Code
Open in...
Python 3 (ipykernel)
[2]:
#Without using the division operator, divide a number n by 2.
n=10;
result=n*0.5
print(result)
5.0
[3]:
#Implement a bitwise XOR operation on two boolean values x and y.
def bitwise_xor(x,y):
return x^y
[4]:
#Using logical operators, check if a string s is non-empty and starts with an uppercase letter.
def string_starts_with_upper(s):
return bool(s) and s[0].isupper()
[5]:
#Swap two variables a and b using arithmetic operators.
a=12
b=36
a=a+b
b=a-b
a=a-b
print(a)
print(b)
36
12

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Code Open in... Python 3 (ipykernel)

[7]:
```
#Reverse the bits of a 32-bit unsigned integer n.
def reverse(n):
    return int('{:32b}'.format(n)[::-1],2)
```

[10]:
```
#Using bitwise operators, determine if an integer n is odd.
def is_odd(n):
    return (n & 1)==1


print(is_odd(5))
```

```
True
```

[13]:
```
#Check if a number n is within 10 units of 100 using a single expression.
def result(n):
    return abs(n-100)<=10

print(result(99))
```

```
True
```

*[18]:
```
#Without using **, calculate the cube of a number x.
import math
def cube(n):
    return n*n*n
```

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Code

Open in... Python 3 (ipykernel)

```
print(result(99))
```

```
True
```

[18]:

```
#Without using **, calculate the cube of a number x.
import math
def cube(n):
    return n*n*n

print(cube(4))

#or


#def cube(n):
#    return pow(n,3)
```

```
64
8
```

[ ]:

```
#Check if a number n is a power of two using bitwise operators
def bitwise(n):
    return n!=0 and (n &(n-1))==0
```