

### Experiment 2

#### Code:

def AND (a, b):

    if a == 1 and b == 1:

        return True

    else:

        return False

# Driver code

if \_\_name\_\_=='\_\_main\_\_':

    print(AND(1, 1))

    print("+-----+-----+")

    print(" | AND Truth Table | Result |")

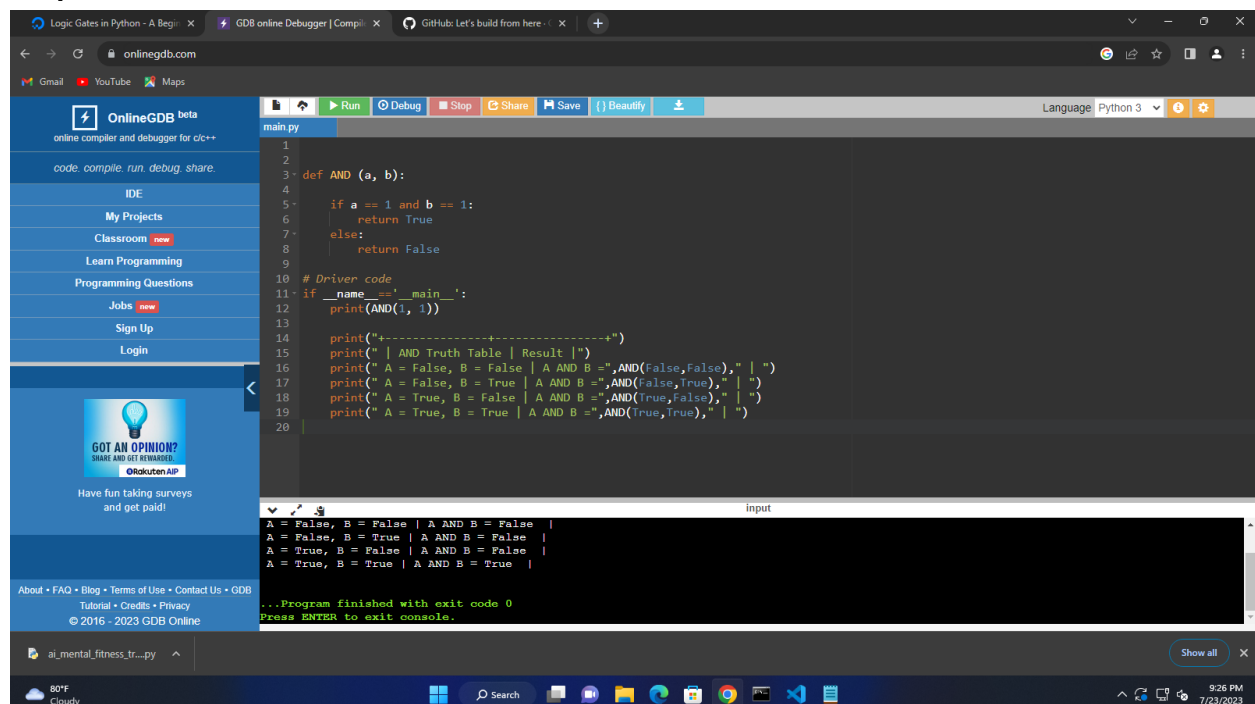
    print(" A = False, B = False | A AND B =",AND(False,False)," | ")

    print(" A = False, B = True | A AND B =",AND(False,True)," | ")

    print(" A = True, B = False | A AND B =",AND(True,False)," | ")

    print(" A = True, B = True | A AND B =",AND(True,True)," | ")

#### Output:



The screenshot displays the OnlineGDB web interface. The code editor on the right contains the Python code for the AND function and its driver code. The output console at the bottom shows the execution results, which include the AND truth table and the final result of the AND operation for (1, 1).

```
1
2
3 def AND (a, b):
4
5     if a == 1 and b == 1:
6         return True
7     else:
8         return False
9
10 # Driver code
11 if __name__=='__main__':
12     print(AND(1, 1))
13
14     print("+-----+-----+")
15     print(" | AND Truth Table | Result |")
16     print(" A = False, B = False | A AND B =",AND(False,False)," | ")
17     print(" A = False, B = True | A AND B =",AND(False,True)," | ")
18     print(" A = True, B = False | A AND B =",AND(True,False)," | ")
19     print(" A = True, B = True | A AND B =",AND(True,True)," | ")
20
```

Output:

```
A = False, B = False | A AND B = False |
A = False, B = True | A AND B = False |
A = True, B = False | A AND B = False |
A = True, B = True | A AND B = True |

...Program finished with exit code 0
Press ENTER to exit console.
```