

## Experiment 01

### Code:

```
def XOR (a, b):
    if a != b:
        return 1
    else:
        return 0
# Driver code
if __name__ == '__main__':
    print(XOR(5, 5))
    print("+-----+-----+")
    print(" | XOR Truth Table | Result |")
    print(" A = False, B = False | A XOR B =",XOR(False,False)," | ")
    print(" A = False, B = True | A XOR B =",XOR(False,True)," | ")
    print(" A = True, B = False | A XOR B =",XOR(True,False)," | ")
    print(" A = True, B = True | A XOR B =",XOR(True,True)," | ")
```

### Output:

```
0 +-----+-----+
 | XOR Truth Table |
Result |
A = False, B = False |A XOR B = 0 |
A = False, B = True | A XOR B = 1 |
A = True, B = False | A XOR B = 1 |
A = True, B = True | A XOR B = 0 |
```