**Design a test case with boundary value analysis**

function calculate\_ticket\_price(age)

    if age >= 0 and age <= 12:

        apply 50% discount

    elif age >= 13 and age <= 17:

        apply 25% discount

    elif age >= 18 and age <= 64:

        apply 0% discount (full price)

    elif age >= 65:

        apply 30% discount

    else:

        return "Invalid age input"

    end if

    return ticket\_price

end function

Here's the first few BVA tests to get you started:

1. Age input: 0 (Minimum) Expected output: 50% discount (child)
2. Age input: 12 (Upper boundary for children) Expected output: 50% discount (child)
3. Age input: 13 (Lower boundary for teenagers) Expected output: 25% discount (teenager)
4. Age input: 17 (Upper boundary for teenagers) Expected output: 25% discount (teenager)
5. Age input: 18( lower boundary for adult) expected output: 0% discount( adult)
6. Age input : 64: ( upper boundary of adult) expected output: 0 % discount( adult)
7. Age input: 65( lower boundary of old) expected ouput: 30 % discount( old)
8. Age input: -1 (without boundary) expected ouput: invalid age input