** Assignment: Nested If**

**Q1. Check if a number is positive, negative, or zero. If positive, check whether it is even or odd.** Input: 5  
 Output: Positive and Odd

**Q2. Check a student's marks. If marks > 50, check if they are above 90 to grade as 'A', otherwise grade 'B'.** Input: 95  
 Output: Grade A

**Q3. Check if a person is eligible to vote. If age ≥ 18, check if citizenship is “Yes” to allow voting.** Input: age=20, citizenship="Yes"  
 Output: Eligible to vote

**Q4. Check whether a character is a vowel or consonant. If consonant, check if it is uppercase or lowercase.** Input: 'b'  
 Output: Consonant and Lowercase

**Q5. Check whether a year is a leap year.** Input: 2000  
 Output: Leap Year

**Q6. Find the largest of three numbers. First, check if the first number is largest, otherwise check between the other two.** Input: 10, 25, 15  
 Output: Largest number is 25

**Q7. Check whether a number is divisible by 2, 3, or both. If divisible by both, print “Divisible by 6”.** Input: 12  
 Output: Divisible by 6

**Q8. Check if a person is eligible for a senior citizen discount. If age > 60, check if they have a membership card.** Input: age=65, membership="Yes"  
 Output: Eligible for discount

**Q9. Check whether a person can drive. If age ≥ 18, check if they have a valid license.** Input: age=19, license="Yes"  
 Output: Can drive

**Q10. Determine a student’s grade based on marks.** Input: 78  
 Output: Grade B

**Q11. Check whether a number is positive. If positive, check if it is divisible by 5.** Input: 20  
 Output: Positive and divisible by 5

**Q12. Check if a number is even. If even, check if it is also a multiple of 4.** Input: 16  
 Output: Even and divisible by 4

**Q13. Determine ticket price: If age < 12, child ticket; if 12–60, adult ticket; if above 60, senior ticket. If adult ticket, check if it’s a weekend to apply 10% extra.** Input: age=30, weekend="Yes"  
 Output: Adult ticket with 10% extra

**Q14. Check eligibility for a scholarship. If marks ≥ 85, check if extracurricular activities ≥ 3 to approve scholarship.** Input: marks=90, activities=4  
 Output: Scholarship Approved

**Q15. Check a person’s BMI. If BMI < 18.5, underweight; if 18.5–24.9, normal; if 25–29.9, overweight; if ≥ 30, obese. Use nested if to categorize.** Input: BMI=27  
 Output: Overweight