

Questions on Conditional Statements.

1. Imagine Sai at a national park. The park has a new thrilling ride with a strict requirement that only people aged 12 and above, and with a height of 150 cm or more, can go on it. Write a program to check if Sai is eligible for the ride.
2. Imagine Ram borrowed a book from the library but returned it late. The library has the following rule:
 - If he returns the book within 5 days of the due date, the fine is ₹5.
 - If he returns it between 6 to 10 days late, the fine is ₹10.
 - If it's more than 10 days late, the fine is ₹15.

Write a program to calculate the fine based on the number of late days.

3. A teacher wants a quick way to check a student's grade based on marks:
 - If the marks are 90 or above, the grade is 'A'.
 - If the marks are between 80 and 89, the grade is 'B'.
 - If the marks are between 70 and 79, the grade is 'C'.
 - If the marks are between 60 and 69, the grade is 'D'.
 - Below 60 is a failing grade, 'F'.

Write a program to assign a grade based on the student's marks.

4. Imagine Abhi is building a weather station, and he want to display a message based on the current temperature:
 - If the temperature is below 0°C, it's "Freezing".
 - If it's between 0°C and 10°C, it's "Very Cold".
 - If it's between 11°C and 20°C, it's "Cold".
 - If it's between 21°C and 30°C, it's "Warm".
 - If it's above 30°C, it's "Hot".

Write a program to check the temperature status.

5. A cinema offers discounts based on age:
 - Children (age below 12) get a 50% discount.
 - Senior citizens (age 60 and above) get a 30% discount.
 - Others have to pay the full ticket price.

Write a program to determine the final ticket price for a given age, assuming the full price is ₹20.

6. Imagine Mahesh is playing a game where he have to guess a magic number. The game gives you hints:
 - If the guessed number is less than the magic number, it prints "Too low!"
 - If it's higher, it prints "Too high!"
 - If it's correct, it congratulates you.

Write a program to simulate one guess.

7. A local shop offers discounts based on the total purchase amount:
 - If the purchase is ₹1000 or more, you get a 10% discount.
 - If the purchase is ₹2000 or more, you get a 20% discount.
 - If the purchase is ₹3000 or more, you get a 30% discount.

Write a program that calculates the final price after applying the discount.

8. A school is planning to conduct a special celebration every leap year. Write a program to check if a given year is a leap year. The rules for leap years are:
 - A year is a leap year if it is divisible by 4.
 - However, if the year is divisible by 100, it is not a leap year unless it is also divisible by 400.
9. A bank offers a loan only to customers who meet certain conditions:
 - The customer's salary should be ₹3000 or more.

- They should have a minimum credit score of 700.

Write a program that checks if a customer is eligible for the loan.

10. A company gives bonuses to employees based on their years of service:

- Less than 5 years: No bonus.
- 5 to 10 years: 10% of their annual salary.
- More than 10 years: 20% of their annual salary.

Write a program that calculates the bonus based on years of service.

11. Write a program to simulate a simple ATM that allows the user to check the balance, withdraw money, and deposit money using conditional statements.
12. Write a program that takes the current time (hours in 24-hour format) as input and prints a greeting based on the time (morning, afternoon, evening, or night).
13. Write a program that takes a temperature in Celsius and converts it to Fahrenheit, then checks if it is hot, moderate, or cold based on the temperature.
14. Write a program that takes an integer input and checks if it is even or odd.
15. Write a program to check if a number is positive, negative, or zero.
16. Write a program to find the largest of three numbers input by the user.
17. Write a program that checks whether an input character is a vowel or a consonant.
18. Write a program that checks if the input password matches a predefined password.
19. Write a program to check if a number is divisible by 5 and 11.
20. Write a program to check whether a character is uppercase, lowercase, a digit, or a special character.
