

ASSIGNMENTS - II

1. Temperature Checker:

- Input temperature in Celsius.
- If below 0: print 'Freezing', 0-20: 'Cold', 21-30: 'Warm', above 30: 'Hot'.

2. Grade Calculator:

- Input marks (0-100).
- Use if-elif-else to print grades: A, B, C, D, F.

3. ATM Withdrawal:

- Input account balance and amount to withdraw.
- Check if sufficient balance exists. Deduct and show new balance or print 'Insufficient Funds'.

4. Voting Eligibility:

- Input age.
- Use if-else to check if person is eligible to vote (age \geq 18).

5. Movie Ticket Price:

- Input age.
- Ticket rules: Below 5: Free, 5-18: Rs.100, 19-60: Rs.150, 60+: Rs.80.

6. Leap Year Checker:

- Input a year.
- Check if it's a leap year using if-elif-else.

7. Largest of Three Numbers:

- Input 3 numbers and print which one is the largest using if-elif-else.

8. Ternary - Even/Odd:

- Input number.
- Use ternary operator to check and print Even or Odd.

9. Bill Discount:

- Input bill amount.
- Discount: Rs.1000+: 20%, Rs.500+: 10%, else no discount.

10. Student Result:

- Input 3 subject marks.
- If all ≥ 35 , pass. If any < 35 , fail.

11. Login Authentication:

- Predefined username/password. Take input and check if login is successful.

12. BMI Calculator:

- Input height and weight.
- Calculate BMI and categorize: Underweight, Normal, Overweight, Obese.

13. Number Sign Checker:

- Input number and print whether it's Positive, Negative, or Zero.

14. Ternary - Login Status:

- Input boolean 'is_logged_in'. Print 'Welcome' or 'Please login' using ternary.

15. Electricity Bill Calculator:

- Input units consumed. First 100: Rs.2/unit, next 100: Rs.3/unit, above 200: Rs.5/unit.

16. Travel Mode Suggestion:

- Input distance in km.
- If < 5 walk, < 20 bike, < 100 car, else train.

17. Day Name by Number:

- Input 1-7 and print the corresponding day using if-elif-else.

18. Triangle Type:

- Input 3 sides.
- Print whether triangle is Equilateral, Isosceles, or Scalene.

19. Salary Tax Calculator:

- Input salary.
- Tax: $>10L = 30\%$, $>5L = 20\%$, $>2.5L = 10\%$, else no tax.

20. Ternary - Voting Status:

- Input age. Use ternary operator to print 'Eligible' or 'Not Eligible'.