Assignment-3   **Decision Control Statements**   **C Programming**

1. WAP to check whether a given number is an **even number or an odd**
2. WAP to check whether a given number is an even number or an odd number **without using % operator**.
3. WAP to check whether a given **number is divisible by 5 or not.**
4. WAP to check whether a given **number is positive or non-positive**.
5. Write a program to check whether a given number is a **three-digit number or not**.
6. Write a program to print **greater between two numbers**. Print one number of both are the same.
7. WAP to print **greater among three numbers**. Print one number of them are the same.
8. WAP to check whether a given **year is a leap year or not**.
9. WAP which takes the cost price and selling price of a product from the user. Now **calculate and print profit or loss percentage**.
10. WAP to input an alphabet from user and check whether the given **alphabet is in uppercase or in lowercase**.
11. Write a program to take marks of 5 subjects from the user. Assume marks are given out of 100 and passing marks is 33. Now display whether the **candidate passed the examination or failed**.
12. WAP to create a simple **calculator** that perform four operations **addition, subtraction, product and division**.
13. WAP to check whether a given number is divisible by **3 and divisible by 2**.
14. WAP to check whether a given number is divisible by **7 or divisible by 3**.
15. WAP to check whether a given number is **positive, negative or zero**.
16. WAP to check whether a given character is **an alphabet (uppercase), an alphabet (lower case), a digit or a special character**.
17. WAP which takes the length of the sides of a triangle as an input. Display whether the **triangle is valid or not**.
18. WAP which takes the month number as an input and display number of **days in that month.**
19. WAP check whether **roots of a given quadratic equation are real & distinct, real & equal or imaginary roots.**
21. WAP to an alphabet from user and check whether the given **alphabet is a vowel or a consonant.**
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