C Programming

Problem List 2

Topics:

1. Operators
2. Conditional Statements (if-else)
3. Loop Statements (for, while)
4. Basic Array

Problem List on basic

SET A

1. Input a number and check if it is even or odd.
2. Find the largest of two numbers.
3. Find the smallet number among three numbers.
4. Print the number from 1 to 20 using loop.
5. Print the multiplication table of a given number using a loop.
6. Calculate the factorial of a number using a for loop.
7. Calculate the factorial of a number using a while loop.
8. Input marks and print grade (A, B, C, D, F).
9. Check if a number is positive, negative, or zero.
10. Print all numbers from 1 to 100 using a loop.

SET B

1. You have to buy two books. For each book, input the **unit price** and **quantity**.

   - Calculate the total price.
   - If the total quantity is more than 100 OR the total price is more than 2000, you will get 20% discount.
   - Print the total payable amount.

2. Input marks of a student in 5 subjects.

   - Calculate the GPA.
   - If average ≥ 80 → Grade A
   - If 60 ≤ average < 80 → Grade B
   - If 40 ≤ average < 60 → Grade C
   - Otherwise → Fail
   - Print the grade.

3. Input the food bill amount.

   - If the bill is above 2000, apply 10% discount.
   - Then add 5% VAT to the discounted bill.
   - Print the final payable bill.

SET C

1. Check if a number is prime.
2. Find the sum of digits of a given number.
3. Reverse a number.
4. Write a C program to add an element in an Array.
5. Write a C program to remove an element from an Array.