UTA 003 Lab Assignment

1. WAP to print any message on the screen.

2. WAP to input 2 no's from the user & do

   their addition, subtraction, multiplication & division.

3. WAP to input principal, rate, time & find the simple interest.

4. WAP to print area of circle, rectangle & square.

5. WAP to enter marks of a student in 5 subjects & calculate the

   percentage.

6. WAP to find average of 7 numbers.

7. WAP to calculate

    i. $(a+b)^2$

    ii. $(a+b)^3$

    iii. (a^2-b^2)

8. WAP to find circumference of a circle.

9. WAP to swap 2 no's by using a third variable.

10. WAP to swap 2 no's without using a third variable.

11. WAP to convert temperature from degree Celsius to Fahrenheit &

    vice-versa. Use the formula : F=9C/5 + 32

12. WAP to calculate the Gross Salary of an employee.

    Assume Gross Salary=Basic Salary+DA+HRA

    DA=40% of Basic Salary

    HRA=20% of Basic Salary

13. WAP to find whether a person can vote or not.

14. WAP to find whether a no. is even or odd.

15. WAP to find whether a no is positive or negative.

16. WAP to enter the %age of a student & print whether he is PASS or FAIL.

17. WAP to check whether a given year is leap or not.

18. WAP to show the use of **conditional operator** (Greater among two numbers)

19. WAP to check whether the given number is even or odd (By using **conditional operator**).

20. WAP to print the largest of three numbers.

21. WAP to calculate the percentage of a student in 5 subjects and then find his grade accordingly.

22. WAP to calculate the Gross Salary of an employee.

    Assume:

BASIC SALARY	DA	HRA
<1500	90% of Basic Salary	10% of Basic Salary
>=1500	98% of Basic Salary	500

23. WAP to display days of week i.e. Monday to Sunday using switch-case statement.

24. WAP to display arithmetic operations using switch-case statement.

25. WAP to print a name a message 10 times.

26. WAP to print first 10 natural nos.

27. WAP to print first N natural numbers and their sum.

28. WAP to calculate SI for 3 sets of p, n & r.

29. WAP to print the following series:

    i. 10,9,8,…..1

ii. 2,4,6,8,…..20

iii. 10,13.5,17,20.5

30. WAP to factorial of a no

i. Using for loop

ii. Using while loop

31. WAP to print sum of following series

1+1/4+1/7+1/10+1/13+1/16+1/19+1/22+1/25

32. WAP to print the squares of 1st 10 natural numbers and their sum.

33. WAP to print the product and average of 1st N natural numbers.

34. WAP to print even nos. out of first 100 numbers.

35. WAP to Print the Fibonacci series up to n numbers.

36. Write a program to print table of a number.

37. WAP to accept a 3 digit number from the user and print it in reverse.

38. WAP to check whether the entered number is Palindrome or not.

39. WAP to check whether the entered no. is Armstrong no. or not.

40. WAP to print prime nos. out of first 100 numbers.

41. WAP to print the following:

i.

```
1
1   2
1   2   3
1   2   3   4
1   2   3   4   5
```

ii.

```
1
2   2
3   3   3
4   4   4   4
5   5   5   5   5
```

iii.

```
1
2   3
4   5   6
7   8   9   10
```

iv.

```
                1
            1   2   1
        1   2   3   2   1
    1   2   3   4   3   2   1
1   2   3   4   5   4   3   2   1
```