**C Program – DAY 2**

1. To find the sum of squares of first n natural numbers. User gives n.
2. To print all odd numbers between 200 and 6 using both for loop and while loop.
3. To print characters a to z one on each line
4. To generate first n prime numbers where n is entered interactively by the user.
5. To generate the prime numbers lying between the two numbers a & b given by the user.
6. To test the number input by the user is a prime number. The user should be allowed to
7. continue as long as she wants.
8. To find the L.C.M of two numbers.
9. Program to check whether the given number is palindrome or not ?
10. Program to check whether the given number is amstrong or not ?
11. Program to check whether the given number is perfect or not ?
12. **To prepare a table showing the amount under simple & compound interest for the**

**principal 1000000 RS. For 10 years. The rate is 12.5 % per annum and the amount is**

**compounded quarterly.**

1. **Find the birth\_date of the youngest person in a group. The number of the persons in the group is not known in advance. The input set will be terminated by a suitable dummy input.**
2. To generate Pythagorean triples of the form (x,y,z) where x2 + y2 = z2
3. To generate Strong number from 100 to 1000
4. To check entered number is Prime or not.
5. To generate Fibonacci series
6. **Patterns**

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| \*  \* \*  \* \* \*  \* \* \* \*  \* \* \* \* \* | \* \* \* \* \*  \* \* \* \*  \* \* \*  \* \*  \* | \*  \* \*  \* \* \*  \* \* \* \*  \* \* \* \* \* | 1  1 2  1 2 3  1 2 3 4  1 2 3 4 5 |
| 1  2 3  4 5 6  7 8 9 10  10 11 12 13 14 | 1  2 2  3 3 3  4 4 4 4  5 5 5 5 5 | 1 2 3 4 5  1 2 3 4  1 2 3  1 2  1 | 1 2 3 4 5  2 3 4 5  3 4 5  4 5  5 |

1. **Series**

1+1/1!+1/2!+……….+1/n!

1+x/1!+x3/2!+x5/3!+…………….+x2n-1/n!

x-x2/2!+x3/3!-x4/4!+…………..+xn/n!