**Assignment Day 2**

1. Write a program which will find all such numbers which are divisible by 7 but are not a multiple of 5, between 2000 and 2100 (both included). The numbers obtained should be printed in a comma-separated sequence on a single line.
2. If a five digit number is input through the keyboard, write program to calculate the sum of digits.
3. Any integer is input through the keyboard. Write a program to find out whether it is an odd number or even number.
4. Any year is input through the keyboard.Write a program to detrermine whether the year is leap year or not.
5. A five digit number is input through the keyboard.write a program to obtain the reversed number and to determine whether the original and reversed number are equal or not.
6. Any character is entered through the keyboard ,write a program to determine whether the character entered is a capital letter,a small case letter,a digt or a special symbol.
7. Write a Python program to get the Fibonacci series between 0 to 50.
8. Write a Python program to check whether the input number is Armstrong or not.
9. Write a Python program to print first five Armstrong number. Remember me 1 is not a Armstrong number.
10. A certain grade of steel is graded according to the following conditions :
    1. Hardness must be greater than 50.
    2. Carbon content must be less than 0.7.
    3. Tensile strength must be greater than 5600.

The grades are as follows:

Grade is 10 if all three conditions are met.

Grade is 9 if conditions a and b are met.

Grade is 8 if conditions b and c are met.

Grade is 7 if conditions a and c are met.

Grade is 6 if only one condition are met.

Grade is 5 if none of the conditions are met.

Write a program which will require the user to give values of hardness ,carbon content and tensile strength of the steel under consideration and output the grade of the steel.

1. *Write a program in following shape.*

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*AB*

*ABC*

*ABCD*

*ABCDE*

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