C assignments – Day 14 (13-Sept-2022)

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Que1- Write program to read a number from user and find the factorial of that number. Print all the digits between first and second digit of that factorial in ascending order if the first digit is lesser than the first digit otherwise print in ascending order.

```c
#include <stdio.h>
void main()
{
    int a, fact = 1, firstDigit, secondDigit;
    printf("Enter Your number\n");
    scanf("%d", &a);
    while (a != 0)
    {
        fact *= a;
        a--;
    }
    printf("The factoriel of the entered number is %d\n", fact);
    while (fact >= 100)
    {
        fact = fact / 10;
    }

    firstDigit = fact / 10;
    secondDigit = fact % 10;

    if (firstDigit <= secondDigit)
    {
        while (firstDigit <= secondDigit)
        {
            printf("%d \t", firstDigit);
            firstDigit++;
        }
    }
    else
    {
        while (firstDigit >= secondDigit)
        {
            printf("%d \t", firstDigit);
            firstDigit--;
        }
    }
}
```

Que2- Write a program to find sum of cube of all the numbers upto given number and display all the even numbers from second last digit to last digit.

```c
#include <stdio.h>
void main()
{
    int a, b=1, sum = 0, secondlastDigit, lastDigit;
    printf("Enter your number\n");
    scanf("%d", &a);
    while (a != 0)
    {
        b = a * a * a;
        sum += b;
        a--;
    }
    printf("The sum of cube of all the numbers is %d \n", sum);
    lastDigit = sum % 10;
    sum /= 10;
    secondlastDigit = sum % 10;
    if (lastDigit > secondlastDigit)
    {
        while (lastDigit >= secondlastDigit )
        {
            if(secondlastDigit%2 == 0)
            {
            printf("%d \t", secondlastDigit);
            }
            secondlastDigit++;
        }
    }
    else
    {
        while (lastDigit <= secondlastDigit)
        {
            if(lastDigit %2 ==0){
            printf("%d \t", lastDigit);
            }
            lastDigit++;
        }
    }
}
```