SECOND ASSIGNMENT
SEPTEMBER/OCTOBER SEMESTER 2022

BACHELOR OF COMPUTER SCIENCE (HONS.)
(IN COLLABORATION WITH IUKL)

APPLIED PROGRAMMING/ADVANCE PROGRAMMING
(CSC 3532/CSC 3530)

LECTURER'S NAME : AMAR SUBEDI

GENERAL INSTRUCTIONS

1. This question booklet consists of 2 pages including this page.
2. There is one **SECTION** in this question booklet.
3. Please submit assignment solution in **SOFT COPY.**
4. **The Deadline for Submission is on 21st December.**

SECTION A   **(30 Marks)**

There is ONE (1) questions in this section. Answer ALL Question in the Answer Booklet.

Sunway College has Account, Administration, IT and others department. *In* each department more than 5 staff are working. Account department on releases of the salary payment of *staff, they* calculated the tax of each staff. Below two tables are tax slab table approved by the government and *Accounts* department while *the release* of salary of staff they calculated each income tax for each staff.

If staff is individual, then as per first table income tax are calculated and if staff is married then as per second table income tax are calculated and deducted the income tax amount on the basic salary of staffs and *provided* the monthly salary. Develop an Income Tax Software for *Sunway College, so* that Account division should able to *calculate* the income tax of each employee through the system. System should ask for 5 staff information at each time and based on data information provided as below sample; system will calculate the income tax and display the monthly salary based on the income tax.

(30 marks)
(CLO3:PLO6:C3)

Individual/Natural Person

Annual Income	Income Tax Rate (FY 2077/78)
Up to Rs. 4,00,000	1%
Additional Rs. 1,00,000	10%
Additional Rs 2,00,000	20%
Additional Rs 6,00,000	30%
Additional Tax Above Rs 2,000,000	36%

Married/Couple:

Annual Income	Income Tax Rate (FY 2077/78)
Up to Rs. 4,50,000	1%
Additional Rs. 1,00,000	10%
Additional Rs 2,00,000	20%
Additional Rs 5,50,000	30%
Additional Tax Above Rs 2,000,000	36%

 Design your program according to the screen interaction given below.

Please enter the number of staff you wanted you provide data: 5
Enter for the 1 Staff Information:
        Enter Staff Name [1]: Amar Sharma
        Enter Address [1]: Kathmandu
        Enter Pan No [1]: 927867986
        Enter 'Y' for Married and 'N' for Unmarried Status [1]: Y
        Enter FY [1]:2020/21
        Enter Staff per month income [Rs.][1]:36540

Enter for the 2 :
        Enter Staff Name [2]: Manoj Ghimire
        Enter Address [2]: Pokhara
        Enter Pan No [2]:2345678
        Enter 'Y' for Married and 'N' for Unmarried Status [2]:N

Enter FY [2]:2020/21
Enter Staff per month income [Rs.][2]:35000

…………………………………………………………
………………………………………………………….

Enter for the 5 :
    Enter Staff Name [2]: Prakash Ghimire
    Enter Address [2]: Butwal
    Enter Pan No [2]:2345678
    Enter 'Y' for Married and 'N' for Unmarried Status [2]:N
    Enter FY [2]:2020/21
    Enter Staff per month income [Rs.][2]:40000

[Output]

        Sunway College Account Department   ---------------Line 1
           MaitiDevi, Kathmandu-------------------Line 2
            Welcome to------------------------------Line 3
          Salary& Tax Calculate System (STCS) Line 4
Staff Name: Amar Sharma   **Address:** Kathmandu
PAN No: 927867986   **FY:** 2020/21   **Married Status=Y**

Staff Amar Sharma with PAN 927867986 fall under 1% Tax salb.
Amar Sharma (PAN 927867986) to pay tax to government is [Rs.]= 4500

           Sunway College Account Department
              MaitiDevi, Kathmandu
                Welcome to
          Salary& Tax Calculate System (STCS)
Staff: Manoj Ghimire   **Address:** Pokhara
PAN No: 2345678   **FY:** 2020/21   **Married Status=N**

Staff Manoj Ghimire with PAN 2345678 fall under 1% Tax salb.
Manoj Ghimire (PAN 2345678) to pay tax to government is [Rs.]= 4500

Note: Your program should include the following
1. Define all related varables.
2. **Staff_No** named must be assigned holding total number of staff.
3. Use looping and function to receive data.
4. Input function with names **Staff_Info**, calculation tax function with names
   Calculate_Tax_Of_Staff holds staff married status as single parameter information Based on
   the married status; status flag as parameter must be passed to the **Calculate_Tax_Of_Staff**
   function. and inside that function two function with named
   Calculate_Tax_Of_Staff_Married and **Calculate_Tax_Of_Staff_Unmarried** called based
   on the married status of the Staff.

5. if the flag is on then **Calculate_Tax_Of_Staff_Married** function call; this function must provide all the calculation of the Staff with married status

6. if the flag is off then **Calculate_Tax_Of_Staff_Unmarried** function call; this function must provide all the calculation of the Staff with unmarried status

7. **Display_Staff_Info** display the Staff information.

8. **Display_Static_Info** function must hold the content information of Line 1 to 4 must.

9. **Staff_Info** function should contain Staff information and students must provide their name as input.

10. **All the output must be stored in the file (use file handling).**

11. **Use List, function , if-else, for-loop , file handling)**

***   END OF QUESTIONS   ***