ES085V1 Activity No

Computer Engineering (Far Eastern University)

Problem 1.
Input an integer value. If the number is divisible by 3, print "FIZZ". If the number is divisible by 5 print "BUZZ". If the number is divisible by 3 and 5, print "FIZZBUZZ"

EXER1_1.C.cpp | EXER1_2.C.C | EXER1_3.cpp | EXER1_4.cpp | Untitled1

```c
#include<stdio.h>
int main (void){
    int integer;
    printf("Input an integer: ");scanf("%d", &integer);
    if(integer%3==0 && integer%5==0){
        printf("\nFIZZBUZZ");
    }else if(integer%3==0){
        printf("\nFIZZ");
    }else{
        printf("\nBUZZ");
    }
    return 0;
}
```

Problem 2.
Leap years occur in years exactly divisible by four, except that years ending in 00 are leap years only if they are divisible by 400. Hence, 2000 is a leap year, but 1900 is not. Make a flowchart that will input a value for YEAR (integer) and output whether it is a “LEAP YEAR” or “NOT A LEAP YEAR”.

EXER1_1.C.cpp | EXER1_2.C.C | EXER1_3.cpp | EXER1_4.cpp

```c
#include<stdio.h>
int main (void){
    int years;
    printf("input year:");scanf("%d", & years);
    if(years%4==0 && years%100!=0){
        printf("LEAP YEAR");
    }else if(years%100==0 && years%400==0){
        printf("LEAP YEAR");
    }
    else{
        printf("NOT A LEAP YEAR");
    }
    return 0;
}
```

Problem 3.
A taxi charges P1.50 for the first 300 meters and P1.00 for every 200 meters thereafter. Any distance covering the next 200 meter zone is still charged P1.00. Make a program that would input the DISTANCE a trip took and output the FEE.

EXER1_1.C.cpp | EXER1_2.C.C | EXER1_3.cpp | EXER1_4.cpp

```c
#include<stdio.h>
int main (void){
    int distance,d1;
    float fee;
    printf("Enter distance travelled:");scanf("%d", & distance);
    fee=0;
if(distance>=300){
        distance=distance-300;
        fee=1.50;
    if(distance>200){
        d1=distance/200;
        fee=fee+1.00*d1;
        distance=distance-d1*200;
    }if(distance>0){
        fee=fee+1.00;
    }
 }else if(distance>200){
       distance=distance-200;
       fee=1.00;
    if(distance>0){
        fee=fee+1.00;
    }
 }else{
    fee=1.00;}
 printf("Fare=%.2f", fee);
 return 0;
 }
```

Problem 4
SNAIL-MAIL COMPANY charges Php28.99 per telegram that does not exceed 12 words and Php2.50 pesos for every succeeding word plus Php 5.00 service charge if type of delivery is special. Input customer's name and the number of words in a telegram and the type of delivery ('S' or 's' for special). The program should output the computed telegram cost.
note: if type of delivery is not special, no additional charge is given to the customer.

EXER1_1.C.cpp | EXER1_2.C.C | EXER1_3.cpp | EXER1_4.cpp

```c
#include<stdio.h>
int main(void){
    int num;
    char name[20];
    char type;
    int word;
    float cost;
printf("Enter customer's name: ");
    gets(name);
printf("\nInput number of words used in the telegram: ");scanf("%d", &word);
printf("\nInput type of delivery (S-Special) or (N-None): ");scanf(" %c", &type);
    cost=0;
   if(word<=12){
        cost=28.99;
        if(type=='S' || type=='s'){
            cost=cost+5.00;
        }
}else if(word>12){
        word=word-12;
        cost=28.99+(word*2.50);
        if(type=='S' || type=='s'){
        cost=cost+5.00;
        }
    }
printf("\n\nTotal cost is %.2f", cost);
return 0;
}
```

Write a program that will compute for the saleman's commission based from his total sales for the month.

if total sales is	Commission is
above 0 but below 10,000	2% of total sales
at least 10,000 but below 25,000	5% of total sales
at least 25,000 but below 50,000	10% of total sales
at least 50,000 but below 75,000	13% of total sales
at least 75,000 but below 100,000	15% of total sales
at least 100,000	25% of total sales
otherwise	0

Input salesman's name and his total monthly sales.
Print the computed commission.

EXER1_1.C.cpp | EXER1_2.C.C | EXER1_3.cpp | EXER1_4.cpp | exer1_5.cpp

```c
#include<stdio.h>

int main (void){
    char name[20];
    int sales,com;
    float commision;
    printf("Enter salesman's name: ");
    gets(name);
    printf("\nInput his Total Sales for the Month: ");scanf("%d", & sales);
    if(sales>0 && sales<10000){
    com=1;
    }else if(sales>=10000 && sales<25000){
    com=2;
    }else if(sales>=25000 && sales<50000){
    com=3;
    }else if(sales>=50000 && sales<75000){
    com=4;
    }else if(sales>=75000 && sales<100000){
    com=5;
    }else if(sales>=100000){
    com=6;
    }else{
    com=7;
    }
    switch(com){
    case 1:{
        commision=sales*0.02;
    switch(com){
    case 1:{
        commision=sales*0.02;
        printf("\n\n\tTOTAL COMMISSION is %.2f", commision);
        break;
    }
    case 2:{
        commision=sales*0.05;
        printf("\n\n\tTOTAL COMMISSION is %.2f", commision);
        break;
    }
    case 3:{
        commision=sales*0.10;
        printf("\n\n\tTOTAL COMMISSION is %.2f", commision);
        break;
    }
    case 4:{
        commision=sales*0.13;
        printf("\n\n\tTOTAL COMMISSION is %.2f", commision);
        break;
    }
    case 5:{
        commision=sales*0.15;
        printf("\n\n\tTOTAL COMMISSION is %.2f", commision);
        break;
    }
    case 6:{
        commision=sales*0.25;
        printf("\n\n\tTOTAL COMMISSION is %.2f", commision);
        break;
    }
    case 7:{
        printf("\n\n\tTOTAL COMMISSION is 0", commision);
        break;
    }
    }
    return 0;
}
```