**Assignments**

1. WRITE A PROGRAM TO GET EMPLOYEE CODE, EMPLOYEE NAME, DEPARTMENT AND BASIC PAY. CALCULATE DA, HRA, PF, TAX, GROSS PAY AND NET PAY. CALCUALATIONS ARE MADE WITH THE FOLLOWING CONDITIONS.

IF BASIC PAY IS ABOVE 20000, DA IS 58.5% OF BASIC PAY, HRA IS 15% OF BASIC PAY, PF IS 20% OF BASIC PAY AND TAX IS 17% OF BASIC PAY

IF BASIC PAY IS ABOVE 15000, DA IS 46% OF BASIC PAY, HRA IS 12% OF BASIC PAY, PF IS 15% OF BASIC PAY AND TAX IS 12% OF BASIC PAY

OTHERWISE DA IS 42.5% OF BASIC PAY, HRA IS RS.1500, PF IS 10% OF BASIC PAY AND NO TAX

GROSS PAY = BASIC PAY + DA + HRA, DEDUCTION = PF + TAX

NET PAY = GROSS PAY – DEDUCTION

PRINT ALL DETAILS IN A NEAT FORMAT

1. WRITE A PROGRAM TO GENERATE ELECTRICITY BILL FOR THE CONSUMER BASED ON THE PREVIOUS READING AND CURRENT READING AS INPUT. UNIT AMOUNT IS CALCULATED BASED ON THE CONNECTION TYPE AND UNIT CONSUMED. (UNIT CONSUMED = CURRENT READING – PREVIOUS READING )

| **From Unit** | **To Unit** | **Unit Amount (Rs.)** |
| --- | --- | --- |
| 1 | 100 | 0  Connection Type is Residential |
| 101 | 200 | 2.25 |
| 201 | 500 | 4.5 |
| 501 | Above | 6 |
| 1 | 100 | 0 |
| 101 | 400 | 4.5  Connection Type is Commercial |
| 401 | 700 | 6 |
| 701 | 1000 | 9 |
| 1001 | Above | 10 |

1. WRITE A PROGRAM TO CHECK THE TYPE OF THE TRIANGLE

(EQUIVALATRAL TRIANGLE/ ISOSCELES TRIANGLE /SCALINE TRIANGLE/ RIGHT ANGLE TRIANGLE )

1. WRITE A PROGRAM TO LIST OUT ALL THE FACTORS OF A GIVEN NUMBER (Using for loop, while loop and do…while loop separately)
2. WRITE A C++ PROGRAM TO CONTINUOUSLY ACCEPT NUMBERS FROM THE USER (POSITIVE OR NEGATIVE).  
   THE INPUT SHOULD CONTINUE UNTIL THE USER ENTERS -999 TO TERMINATE.  
   DURING INPUT, THE PROGRAM SHOULD:
3. CALCULATE AND DISPLAY THE SUM OF ALL POSITIVE NUMBERS ENTERED.
4. CALCULATE AND DISPLAY THE SUM OF ALL NUMBERS (POSITIVE OR NEGATIVE) THAT ARE DIVISIBLE BY BOTH 5 AND 10.