Practical 4

- 1. Write a program to input two numbers and perform following operations.
 - I. Add
 - II. Subtract
 - III. Multiply
 - IV. Divide
 - V. Modulus
- 2. Write a program to calculate and print the final bill of a shop. Following screens should appear to the user.
 - I. Display the available items and the unit price.
 - II. Let the user input the required quantities from each item.
 - III. Print the bill as shown in the following figure.

```
bread
                  - 100
         eggs
                  - 800
         butter
         milk
                  - 500
                  - 500
Enter the quantity of bread purchased :1
Enter the quantity of eggs purchased :2
Enter the quantity of butter purchased :3
Enter the quantity of milk purchased :4
Enter the quantity of jam purchased 5
                                ----BILL SUMMARY-----
                ITEM NAME
                                                              PRICE
                bread
                                                               150.00
                                                               200.00
                eggs
                                                              2400.00
                butter
                                                              2000.00
                jam
                                                              2500.00
TOTAL BILL AMOUNT = 7250.00
 .....HAPPY SHOPPING.....
Process returned 0 (0x0)
                         execution time : 6.077 s
ress any key to continue.
```

3. Assume you have done 3 subjects and want to calculate the GPA. After calculating the GPA, print the grade student has obtained according to the following table.

Enter the credits obtained for ICT 107 1.0: 2.0

Enter the credits obtained for subject ICT 105 1.5 : 2.0

Enter the credits obtained for ICT 108 2.0: 2.0

Total credits obtained = $\frac{\sum (credit\ value\ of\ the\ subject\ x\ number\ of\ credits\ obtained)}{total\ credits\ of\ the\ subjects}$

GPA (g)	Grade
$3.5 \le g \le 4.5$	1 st class
$3.0 \le g < 3.5$	2 nd upper
$2.5 \le g < 3.0$	2 nd lower
$2.0 \le g < 2.5$	pass
0 ≤g < 2.0	fail

4. Allow user to enter month, day and year. Print it as follows.

Required date is 01/12/2018

5. Calculate the distance between two points.

You have two points (x_1, y_1) and (x_2, y_2) . Following figure shows the calculation of distance. Prompt user to enter the coordinates of two points and print the distance.

