Lab Assignment ,Section-B

1. Write a program to input two number x, y as lower bound and an upper bound.

Write a function that accepts two values and use a local array to store all prime numbers from x and y.

Print the array in main function.

---

2. Input quantities and price of n items. (Use two arrays or one 2D array).

Write a function that accepts price and quantity of an item, compute and return the cost of the item.

Write another function that accepts total cost of all items and calculate and return discount according to following rules

If total cost is less than 500 , No discount .

If total cost is greater than or equal to 500 and less than 2000, discount is 10 %

If total cost is greater than or equal to 2000 discount is 20 %.

write another function to print individual item price, quantity ,cost, total, discount and grand total .

Write a driver program (main) to control all the operations.

sample run:

```
Number of item: 3
Input price and quantity of item 1:  120  2
Input price and quantity of item 2:  300  1
Input price and quantity of item 2:  10    6
Output:
Item1     120     2          240
Item2     300     1          300
Item3      10     6           60
--------- ----------------------------
TOTAL                        600
Discount                     -60
---------- ------------ ----------------
Grand Total                  540
```

---

3. Write a c program to input a positive number and print its binary representation.

---

4. Write a function Celsius () that accept a degree in Fahrenheit and converts it to Celsius. In main (), print a Fahrenheit to Celsius table for 30 to 140 degree Fahrenheit, in increment of 10 degree.

Formula: C = 5/9 * (F-32)

Sample run:

Fahrenheit	Celsius
40	4.44
50	10
60	15.55
70	26.66
:	