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1. Write an algorithm to print the following

```
*****
*****      int size = 5;
***          int i, j, k;
*
              for (i = size; i >= 1; i--) {
                  for (j = 0; j <= size - i; j++) {
                      System.out.print(" ");
                  }
                  for (k = 0; k < (2 * i - 1); k++) {
                      System.out.print("*");
                  }
                  System.out.println();
              }
```

2. Write an algorithm to swap the following value

a = 10, b = 3

```
int a = 10;
int b = 3;
int temp;

temp = b;
b = a;
a = temp;
```

3. Write an algorithm to swap the following value WITHOUT using temporary variable

a=10, b = 3

```
int a = 10;
int b = 3;

a = a + b;
b = a - b;
a = a - b;
```

Employee table

Emp_id	First_name	Last_name	Salary	Joining_date	Department
1	John	Abraham	1000000	01-JAN-13 12.00.00 AM	Banking
2	Michael	Clarke	800000	01-JAN-13 12.00.00 AM	Insurance
3	Roy	Thomas	700000	01-FEB-13 12.00.00 AM	Banking
4	Tom	Jose	600000	01-FEB-13 12.00.00 AM	Insurance
5	Jerry	Pinto	650000	01-FEB-13 12.00.00 AM	Insurance
6	Philip	Mathew	750000	01-JAN-13 12.00.00 AM	Services

Incentive table

Emp_ref_id	Incentive_date	Incentive_amount
1	01-Feb-13	5000
2	01-Feb-13	3000
3	01-Feb-13	4000
1	01-Jan-13	4500
2	01-Jan-13	3500

4. Write a query to show the total amount of incentive for each employee.

Result expected:

Emp_id	First_name	Last_name	Salary	Total_Incentive
1	John	Abraham	1000000	9500
Etc.				

```

SELECT
  employee.emp_id,
  employee.first_name,
  employee.last_name,
  employee.salary,
  SUM(incentive.incentive_amount) as total_incentive
FROM employee
LEFT JOIN incentive ON employee.emp_id = incentive.emp_ref_id
group by employee.emp_id

```