7 write and execute pl/sql stored procedure and function to perform a suitable task on the database. demonstrate its use

```
create table college (
    faculty_id int primary key,
    faculty_name varchar(50),
    joining_date date,
    salary decimal(10,2),
    faculty_dept varchar(50)
);


insert into college (faculty_id, faculty_name, joining_date, salary, faculty_dept)
values
    (101, 'john doe', '2020-01-15', 50000.00, 'mathematics'),
    (102, 'jane smith', '2018-05-20', 60000.00, 'physics'),
    (103, 'alice johnson', '2019-08-10', 55000.00, 'chemistry'),
    (104, 'bob brown', '2021-03-05', 52000.00, 'mathematics');




delimiter //
create procedure calculateaveragesalary(in dept_name varchar(50), out avg_salary decimal(10,2))
begin
    select avg(salary) into avg_salary
    from college
    where faculty_dept = dept_name;
end //
delimiter ;




delimiter //

create function avgsalarybydepartment(deptname varchar(50)) returns decimal(10,2)
deterministic
begin
    declare avgsalary decimal(10,2);

    select avg(salary) into avgsalary
    from college
    where faculty_dept = deptname;

    return avgsalary;
end //

delimiter ;
```

```sql
call calculateaveragesalary('mathematics', @avg_salary);
select @avg_salary as averagesalary;
```