Exercise:

Date: 11.10.2024

Aim: Local procedure to calculate the sum of two numbers.

declare

      procedure *calculate_sum(num1 in number, num2 in number)*

      begin

          dbms.output.put.line('sum of '|| ' and ' || num2 || ' is: ' || (num1 + num2));

      end calculate_sum;

begin

      calculate_sum(10, 20);

      calculate_sum(50, 30);

end;

```
Statement processed.
sum of  and 20 is: 30
sum of  and 30 is: 80
```

Exercise:

Date: 11.10.2024

Aim: Create or replace procedure and make a function.

```sql
create or replace procedure calculate_sum(
    num1 in number,
    num2 in number,
    result out number
) is
begin
        result:= num1 + num2;
end calculate_sum;


declare
        sum_result number;
begin
        calculate_sum(10, 20, sum_result);

        dbms_output.put_line('the sum is: ' || sum_result);
end;
```

```
Statement processed.
the sum is: 30
```

Exercise:

Date: 11.10.2024

Aim: Create a local procedure divide by zero and handle exception.

```
create or replace procedure divide_numbers(
    num1 in number,
    num2 in number,
    result out number
) is
begin
      if num2 = 0 then
                    raise_application_error(-20001, 'Division by zero is not allowed');
      else
            result:= num1 / num2;
      end if;
exception
      when others then
            dbms_output.put_line('error: ' || sqlerrm);
end divide_numbers;
```

```
declare

    divide_result number;

begin

    divide_numbers(10, 0, divide_result);

    dbms_output.put_line('the division is:' || divide_result);

end;
```

output 1: normal division

```
Statement processed.
the division is:.5
```

output 2: when division is performed by 0

```
Statement processed.
error: ORA-20001: Division by zero is not allowed
the division is:
```