Examples of Functions in PL/SQL

```
CREATE FUNCTION circle area (
  p radius IN NUMBER
) RETURN NUMBER AS
  v pi NUMBER := 3.1415926;
  v area NUMBER;
BEGIN
 -- circle area is pi multiplied by the radius squared
 v area := v pi * POWER(p radius, 2);
  RETURN v area;
END circle area;
Tables: Products and Product_types exist in the database, and were created by the following
CREATE statements:
CREATE TABLE product types (
 product type id INTEGER CONSTRAINT product types pk PRIMARY KEY,
 type name VARCHAR2(10) NOT NULL
);
CREATE TABLE products (
  product id INTEGER CONSTRAINT products pk PRIMARY KEY,
  product type id INTEGER
    CONSTRAINT products fk product types
    REFERENCES product types (product type id),
  Product name VARCHAR2(30) NOT NULL,
  Product description VARCHAR2 (50),
  price NUMBER(5, 2) NOT NULL
);
CREATE FUNCTION average product price (
  p product type id IN INTEGER
) RETURN NUMBER AS
  v average product price NUMBER;
BEGIN
  SELECT AVG(price)
     INTO v average product price
  FROM products
  WHERE product type id = p product type id;
  RETURN v average product price;
END average product price;
```