Q1)

BEGIN

DECLARE

TODAY DATE := SYSDATE;

TOMORROW TODAY%TYPE;

BEGIN

TOMORROW := TODAY + 1; -- Add 1 to TODAY to get TOMORROW

DBMS\_OUTPUT.PUT\_LINE('Hello World');

DBMS\_OUTPUT.PUT\_LINE('Today is: ' || TO\_CHAR(TODAY, 'Month DD, YYYY'));

DBMS\_OUTPUT.PUT\_LINE('Tomorrow is: ' || TO\_CHAR(TOMORROW, 'Month DD, YYYY'));

END;

END;

BEGIN

DECLARE

my\_date DATE := SYSDATE;

v\_last\_day DATE;

BEGIN

v\_last\_day := LAST\_DAY(my\_date);

DBMS\_OUTPUT.PUT\_LINE('Today is: ' || TO\_CHAR(my\_date, 'Month DD, YYYY'));

DBMS\_OUTPUT.PUT\_LINE('Last day of the month is: ' || TO\_CHAR(v\_last\_day, 'Month DD, YYYY'));

END;

END;

BEGIN

DECLARE

my\_date DATE := SYSDATE;

v\_last\_day DATE;

v\_new\_date DATE;

months\_between\_result NUMBER;

BEGIN

v\_last\_day := LAST\_DAY(my\_date);

v\_new\_date := my\_date + 45;

months\_between\_result := MONTHS\_BETWEEN(v\_new\_date, my\_date);

DBMS\_OUTPUT.PUT\_LINE('Today is: ' || TO\_CHAR(my\_date, 'Month DD, YYYY'));

DBMS\_OUTPUT.PUT\_LINE('Last day of the month is: ' || TO\_CHAR(v\_last\_day, 'Month DD, YYYY'));

DBMS\_OUTPUT.PUT\_LINE('New date (after adding 45 days) is: ' || TO\_CHAR(v\_new\_date, 'Month DD, YYYY'));

DBMS\_OUTPUT.PUT\_LINE('Number of months between today and the new date: ' || months\_between\_result);

END;

END;

Q2)

CREATE TABLE countries (

country\_name VARCHAR2(50),

median\_age NUMBER(6, 2)

);

INSERT INTO countries (country\_name, median\_age) VALUES ('Japan', 48.6);

INSERT INTO countries (country\_name, median\_age) VALUES ('India', 28.4);

INSERT INTO countries (country\_name, median\_age) VALUES ('United States', 38.5);

INSERT INTO countries (country\_name, median\_age) VALUES ('Germany', 45.7);

DECLARE

CURSOR country\_cursor IS

SELECT country\_name, median\_age

FROM countries

WHERE country\_name = 'Japan';

v\_country\_name countries.country\_name%TYPE;

v\_median\_age countries.median\_age%TYPE;

BEGIN

OPEN country\_cursor;

FETCH country\_cursor INTO v\_country\_name, v\_median\_age;

IF country\_cursor%FOUND THEN

DBMS\_OUTPUT.PUT\_LINE('The median age in ' || v\_country\_name || ' is ' || v\_median\_age || '.');

ELSE

DBMS\_OUTPUT.PUT\_LINE('No record found for the specified country.');

END IF;

CLOSE country\_cursor;

END;