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**Q1)**

1. **Adding a declarative section and declaring variables:**

**DECLARE**

**TODAY DATE := SYSDATE;**

**TOMORROW TODAY%TYPE;**

**BEGIN**

**TOMORROW := TODAY + 1;**

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

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

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

**END;**

1. **Executable section initializes TOMORROW variable and prints TODAY and TOMORROW after printing 'Hello World'.**
2. **Anonymous PL/SQL block to output today's date in the specified format and display the last day of the month:**

**DECLARE**

**my\_date DATE := TRUNC(SYSDATE);**

**v\_last\_day DATE;**

**BEGIN**

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

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

**END;**

1. **Modifying the program to add 45 days to today's date and calculating the number of months between the two dates:**

**DECLARE**

**today\_date DATE := TRUNC(SYSDATE);**

**future\_date DATE;**

**num\_months NUMBER;**

**BEGIN**

**future\_date := today\_date + 45;**

**num\_months := MONTHS\_BETWEEN(future\_date, today\_date);**

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

**DBMS\_OUTPUT.PUT\_LINE('Future Date: ' || TO\_CHAR(future\_date, 'Month DD, YYYY'));**

**DBMS\_OUTPUT.PUT\_LINE('Number of Months: ' || num\_months);**

**END;**

**Q2 )**

**a-**

**CREATE TABLE countries (**

**country\_name VARCHAR2(50),**

**median\_age NUMBER(6, 2)**

**);**

**INSERT INTO countries (country\_name, median\_age)**

**VALUES ('Japan', 45.2);**

**INSERT INTO countries (country\_name, median\_age)**

**VALUES ('United States', 38.5);**

**INSERT INTO countries (country\_name, median\_age)**

**VALUES ('Germany', 46.8);**

**b-**

**DECLARE**

**country\_name countries.country\_name%TYPE;**

**median\_age countries.median\_age%TYPE;**

**BEGIN**

**SELECT country\_name, median\_age**

**INTO country\_name, median\_age**

**FROM countries**

**WHERE country\_name = 'Japan';**

**DBMS\_OUTPUT.PUT\_LINE('The median age in ' || country\_name || ' is ' || median\_age || '.');**

**END;**