

## 8-2: Using Parameters in Procedures

### Vocabulary

- 1.Parameters
- 2.Argument
- 3.Actual parameter
- 4.Formal parameter

### Try It / Solve It

1.

—pass or communicate data between the caller and the subprogram

2.

A.

```
CREATE OR REPLACE PROCEDURE get_country_info(p_country_id IN
wf_countries.country_id %TYPE) IS
```

```
v_name wf_countries.country_name%TYPE;
```

```
v_capitol wf_countries.capitol%TYPE;
```

```
BEGIN
```

```
SELECT country_name,capitol INTO v_name,v_capitol FROM wf_countries WHERE
country_id=p_country_id;
```

```
DBMS_OUTPUT.PUT_LINE(v_name||' '||v_capitol);
```

```
END get_country_info;
```

B.

```
BEGIN
```

```
get_country_info(90);
```

```
END;
```

C.

ORA-01403: no data found

D.

```
CREATE OR REPLACE PROCEDURE GET_COUNTRY_INFO(P_COUNTRY_ID IN
WF_COUNTRIES.COUNTRY_ID %TYPE) IS
V_NAME WF_COUNTRIES.COUNTRY_NAME%TYPE;
V_CAPITOL WF_COUNTRIES.CAPITOL%TYPE;
BEGIN
  SELECT COUNTRY_NAME,CAPITOL INTO V_NAME,V_CAPITOL FROM
  WF_COUNTRIES WHERE COUNTRY_ID=P_COUNTRY_ID;
  DBMS_OUTPUT.PUT_LINE(V_NAME||' '||V_CAPITOL);
EXCEPTION
  WHEN NO_DATA_FOUND THEN
    DBMS_OUTPUT.PUT_LINE('NO DATA FOUND');
END GET_COUNTRY_INFO;
```

3.

FORMAL PARAMETERS=VARIABLES THAT ARE DECLARED IN THE PARAMETER LIST OF A SUBPROGRAM SPECIFICATION  
ACTUAL PARAMETERS=LITERAL VALUES, VARIABLES, EXPR THAT ARE SENT TO THE PARAMETER LIST OF A CALLED SUBPROGRAM

4.

A.

```
CREATE OR REPLACE PROCEDURE get_info(p_region_id IN NUMBER,p_elevation IN
NUMBER) IS
v_number NUMBER;
BEGIN
  SELECT count(*) INTO v_number FROM wf_countries WHERE region_id=p_region_id AND
highest_elevation>p_elevation;
  DBMS_OUTPUT.PUT_LINE(v_number);
EXCEPTION
  WHEN NO_DATA_FOUND THEN DBMS_OUTPUT.PUT_LINE('NO DATA FOUND');
END get_info;
```

B.

```
BEGIN
get_info(5,2000);
end;
```

C.

```
DESCRIBE get_info
```

D.

```
CREATE OR REPLACE PROCEDURE get_info(p_region_id IN NUMBER,p_elevation IN
NUMBER,p_char IN CHAR) IS
v_number NUMBER;
```

```
BEGIN
  SELECT count(*) INTO v_number FROM wf_countries WHERE region_id=p_region_id AND
highest_elevation>p_elevation AND SUBSTR(country_name,0,1)=p_char;
  DBMS_OUTPUT.PUT_LINE(v_number);
EXCEPTION
  WHEN NO_data_FOUND THEN DBMS_OUTPUT.PUT_LINE('NO DATA FOUND');
END get_info;
```

E.

```
declare
v_id NUMBER :=5;
v_elev NUMBER :=2000;
v_char CHAR :='B';
begin
get_info(v_id,v_elev,v_char);
end;
```

F.

ORA-06502: PL/SQL: numeric or value error: character to number conversion error  
parameters don't match types