Batch: A1	
Roll No.:	16010120006
	16010120015
	16010120018
Experiment / assignment / tutorial No. 6(Lab work)	
Grade: AA / AB / BB / BC / CC / CD /DD	

Title: PROCEDURE & CURSOR

The following creates SOLDIER procedure named Transfer that Transfer specific amount of SALARY from SOLDIERS SALARY to another.

```
CREATE OR REPLACE PROCEDURE Transfer()

LANGUAGE plpgsql

AS $$

BEGIN

   -- subtracting the amount from the SOLDIER's SALARY

   UPDATE SOLDIERS

   SET SALARY = SALARY - 10000

   WHERE SSNO = 609;


   -- adding the amount to the SOLDIER's SALARY

   UPDATE SOLDIERS

   SET SALARY = SALARY + 10000

   WHERE SSNO = 608;


   COMMIT;
END;
$$;
```
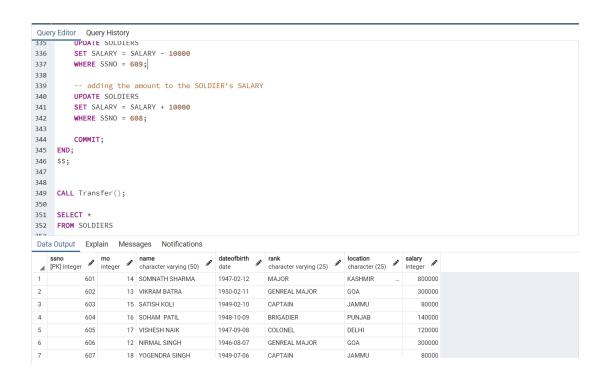
CALL Transfer();

SELECT *

FROM SOLDIERS

Query Editor   Query History

```
335    UPDATE SOLDIERS
336    SET SALARY = SALARY - 10000
337    WHERE SSNO = 609;
338
339    -- adding the amount to the SOLDIER's SALARY
340    UPDATE SOLDIERS
341    SET SALARY = SALARY + 10000
342    WHERE SSNO = 608;
343
344    COMMIT;
345    END;
346    $$;
347
348
349    CALL Transfer();
350
351    SELECT *
352    FROM SOLDIERS
```

Data Output   Explain   Messages   Notifications

	ssno [PK] integer	rno integer	name character varying (50)	dateofbirth date	rank character varying (25)	location character (25)	salary integer
1	601	14	SOMNATH SHARMA	1947-02-12	MAJOR	KASHMIR ...	800000
2	602	13	VIKRAM BATRA	1950-02-11	GENREAL MAJOR	GOA	300000
3	603	15	SATISH KOLI	1949-02-10	CAPTAIN	JAMMU	80000
4	604	16	SOHAM PATIL	1948-10-09	BRIGADIER	PUNJAB	140000
5	605	17	VISHESH NAIK	1947-09-08	COLONEL	DELHI	120000
6	606	12	NIRMAL SINGH	1946-08-07	GENREAL MAJOR	GOA	300000
7	607	18	YOGENDRA SINGH	1949-07-06	CAPTAIN	JAMMU	80000

//CURSOR

//FITCHING INTO RECORDS WITH A CURSOR

```
DECLARE
  TYPE SCurTyp IS REF CURSOR;
  SSNO  SCurTyp;
  RNO  emp%ROWTYPE;
  NAME VARCHAR2(200);
  RANK   VARCHAR2(15) := 'MAJOR';
BEGIN
  sql_stmt := 'SELECT * FROM SOLDIERS WHERE SSNO = :609';
  OPEN SOLDIER_REC FOR sql_stmt USING RANK;
  LOOP
    FETCH SSNO INTO RNO;
    EXIT WHEN SOLDIER_REC%NOTFOUND;
    -- process record
  END LOOP;
  CLOSE SSNO;
END;
```

```
364      RANK    VARCHAR2(15) := 'MAJOR';
365 ▼ BEGIN
366      sql_stmt := 'SELECT * FROM SOLDIERS WHERE SSNO = :609';
367      OPEN SOLDIER_REC FOR sql_stmt USING RANK;
368 ▼    LOOP
369         FETCH SSNO INTO RNO;
370         EXIT WHEN SOLDIER_REC%NOTFOUND;
371         -- process record
372      END LOOP;
373      CLOSE SSNO;
374  END;
375
376
```

Data Output   Explain   Messages   Notifications

```
ERROR:  syntax error at or near "SCurTyp"
LINE 3:    TYPE SCurTyp IS REF CURSOR;
                ^
SQL state: 42601
Character: 18
```