/\*1.1\*/

BEGIN

NULL;

END;

/\*1.3.1\*/

DECLARE

BEGIN

--online display

Dbms\_output.put\_line('PL SQL Through Examples');

END;

/\*1.3.2\*/

BEGIN

DBMS\_OUTPUT.PUT('PL/');

DBMS\_OUTPUT.PUT('SQL');

DBMS\_OUTPUT.NEW\_LINE;

DBMS\_OUTPUT.PUT\_LINE('Through');

DBMS\_OUTPUT.PUT\_LINE('Examples');

END;

/\*1.5.1\*/

DECLARE

A NUMBER(4,1) := 11.2;

B PLS\_INTEGER:=78;

C NUMBER(2) :=11;

D CHAR(1) :='P';

E varchar (4):='GOOD';

V1 CHAR (1):='T';

D1 DATE:='01-01-2020';

-- Displays current date

D2 DATE:=SYSDATE;

BEGIN

Dbms\_output.put\_line('A:'||' '|| A );

Dbms\_output.put\_line('B:'||' '|| B);

Dbms\_output.NEW\_LINE;

Dbms\_output.put\_line('C:'||' '|| C);

Dbms\_output.put\_line ('D:'||' '|| D);

Dbms\_output.NEW\_LINE;

Dbms\_output.put\_line('D1' ||CHR(9) ||'Today’s DATE ');

Dbms\_output.put\_line(D1|| CHR(9) || D2);

Dbms\_output.put\_line ('V1:'||' '|| V1);

END;

/\*1.6.1 \*/

DECLARE

data1 RAW(1000);

data2 LONG RAW(1000);

BEGIN

/\*

Converting string variable to raw data type (binary)

using cast\_to\_raw utility

\*/

data1 := utl\_raw.cast\_to\_raw('PL SQL is a programming language');

data2 := utl\_raw.cast\_to\_raw('PL SQL can be easily used with SQL');

Dbms\_output.put\_line('Data in binary format');

-- Binary data is printed in hexadecimal format

Dbms\_output.put\_line(data1);

Dbms\_output.put\_line(data2);

/\*

Converting binary variable to varchar data type (binary)

using cast\_to\_varchar2 utility

\*/

Dbms\_output.put\_line ('Binary data converted to VARCHAR');

Dbms\_output.put\_line(utl\_raw.CAST\_TO\_VARCHAR2(data1));

Dbms\_output.put\_line(utl\_raw.CAST\_TO\_VARCHAR2(data2));

END;

/\*1.8.1\*/

DECLARE

P Number(2):=5;

Q Number (2):=2;

R Number (2);

BEGIN

R := P+Q;

Dbms\_output.put\_line ('Value of R'||' '|| R );

END;

/\*1.9.1\*/

DECLARE

V1 CONSTANT NUMBER(6,3):=12.342;

BEGIN

DBMS\_OUTPUT.PUT\_LINE (V1);

END;

/\* 1.9.2\*/

DECLARE

V1 CONSTANT NUMBER(6,3) NOT NULL DEFAULT 12.342;

BEGIN

DBMS\_OUTPUT.PUT\_LINE (V1);

END;

/\*1.10.1\*/

DECLARE

age1 VARCHAR(20):='20';

age2 NUMBER := 26;

age3 NUMBER;

age4 VARCHAR(20);

BEGIN

Dbms\_output.put\_line('Value of age1 is ' || age1);

Dbms\_output.put\_line('Value of age2 is ' || age2);

/\* converting string to number \*/

age3 := TO\_NUMBER(age1);

age3:=age3-2;

Dbms\_output.put\_line('Value of age3 is ' || age3);

/\* Converting number to string \*/

age4 := TO\_CHAR(age3);

Dbms\_output.put\_line('Value of age4 is ' || age4);

END;

/\*1.11.1\*/

DECLARE

-- Global variable

N1 number := 20;

BEGIN

Dbms\_output.put\_line('Global Variable N1: ' || N1);

DECLARE

-- Local variable

N2 number := 80;

BEGIN

Dbms\_output.put\_line('Global Variable N1: ' || N1);

Dbms\_output.put\_line('local Variable N2: ' || N2);

END;

END;

/\*1.11.2\*/

DECLARE

-- Global variable

N1 number := 20;

BEGIN

Dbms\_output.put\_line('Global Variable N1: ' || N1);

DECLARE

-- Local variable

N2 number := 80;

BEGIN

Dbms\_output.put\_line('Global Variable N1: ' || N1);

END;

/\* Variable N2 accessed outside the inner block\*/

Dbms\_output.put\_line('local Variable N2: ' || N2);

END;

/\*1.12.1\*/

DECLARE

Type m\_emp\_rec IS RECORD

(

code number(4),

name varchar2(15),

tel\_no NUMBER

);

/\*declare a variable of this type \*/

emp m\_emp\_rec;

BEGIN

emp.code :=10;

emp.name:='Raj';

emp.tel\_no:=765423;

Dbms\_output.put\_line('Code'||CHR(9)|| 'Name'||CHR(9)||'Telephone Number' );

Dbms\_output.put\_line( emp.code||CHR(9)||emp.name||CHR(9)||emp.tel\_no);

END;

/\*1.13.1\*/

DECLARE

Type Cust\_info IS RECORD

(

code number(4),

name varchar2(15),

telephone Number

);

Cus Cust\_info;

BEGIN

SELECT cust\_code, cust\_name, tel\_no into Cus

from CUST1

where cust\_code = 10;

Dbms\_output.put\_line('CODE'||CHR(9)||'NAME'||CHR(9)||'TELEPHONE');

DBMS\_OUTPUT.NEW\_LINE;

Dbms\_output.put\_line(Cus.code ||CHR(9)|| Cus.name||CHR(9)|| Cus.telephone);

END;

/\*1.14.1\*/

DECLARE

Type Cust\_info IS RECORD

(

code CUST1.cust\_code%TYPE,

name CUST1. cust\_name%TYPE,

telephone CUST1.tel\_no %TYPE

);

Cus cust\_info;

BEGIN

SELECT cust\_code, cust\_name, tel\_no into Cus

from CUST1

where cust\_code = 30;

Dbms\_output.put\_line('CODE'||CHR(9)||'NAME'||CHR(9)||'TELEPHONE');

DBMS\_OUTPUT.NEW\_LINE;

Dbms\_output.put\_line(Cus.code ||CHR(9)|| CUS.name||CHR(9)|| Cus.Telephone);

END;

/\*1.15.1\*/

DECLARE

Cust\_info CUST1%ROWTYPE;

BEGIN

SELECT \* into Cust\_info

FROM CUST1

WHERE cust\_code = 10;

Dbms\_output.put\_line( 'CODE '||CHR(9)||'NAME'||CHR(9)||'TELEPHONE');

DBMS\_OUTPUT.NEW\_LINE;

Dbms\_output.put\_line(Cust\_info.cust\_code ||CHR(9)|| Cust\_info.cust\_name||CHR(9)|| Cust\_info.Tel\_no);

END;