Assignemnt15

Q1. DECLARE

msg varchar2(20):= 'Hello World!';

BEGIN

dbms\_output.put\_line (msg);

END;

/

Q2.

DECLARE

no1 NUMBER(5):= :no1 ;

no2 NUMBER(5):= :no2 ;

s NUMBER(5);

d NUMBER(5);

q NUMBER(5);

BEGIN

s := no1 + no2;

d := no1 - no2;

q := no1 / no2;

DBMS\_OUTPUT.PUT\_LINE('Sum=' || s);

DBMS\_OUTPUT.PUT\_LINE('Difference=' || d);

DBMS\_OUTPUT.PUT\_LINE('Quotient=' || q);

END;

/

Q3. DECLARE

A NUMBER(5);

B NUMBER(5);

C NUMBER(5);

BEGIN

A := :A;

B := :B;

C := :C;

IF (A > B AND A > C) THEN

DBMS\_OUTPUT.PUT\_LINE('A (' || A || ') is greater than B (' || B || ') and C (' || C || ')');

ELSIF (B > A AND B > C) THEN

DBMS\_OUTPUT.PUT\_LINE('B (' || B || ') is greater than A (' || A || ') and C (' || C || ')');

ELSIF (C > A AND C > B) THEN

DBMS\_OUTPUT.PUT\_LINE('C (' || C || ') is greater than A (' || A || ') and B (' || B || ')');

END IF;

END;

/

Q4. DECLARE

num NUMBER;

BEGIN

num := :num;

IF num > 0 THEN

DBMS\_OUTPUT.PUT\_LINE('The number ' || num || ' is positive.');

ELSIF num < 0 THEN

DBMS\_OUTPUT.PUT\_LINE('The number ' || num || ' is negative.');

ELSE

DBMS\_OUTPUT.PUT\_LINE('The number is zero.');

END IF;

END;

/

Q5.

DECLARE

v\_char CHAR(1) := :v\_char;

BEGIN

IF (v\_char BETWEEN 'A' AND 'Z' OR v\_char BETWEEN 'a' AND 'z') THEN

DBMS\_OUTPUT.PUT\_LINE('The character ' || v\_char || ' is a letter.');

ELSIF (v\_char BETWEEN '0' AND '9') THEN

DBMS\_OUTPUT.PUT\_LINE('The character ' || v\_char || ' is a digit.');

ELSE

DBMS\_OUTPUT.PUT\_LINE('The character ' || v\_char || ' is neither a letter nor a digit.');

END IF;

END;

/

Q6.

DECLARE

v\_num NUMBER;

BEGIN

v\_num := 1;

LOOP

IF v\_num > 10 THEN

EXIT;

END IF;

IF MOD(v\_num, 2) = 0 THEN

DBMS\_OUTPUT.PUT\_LINE('The number ' || v\_num || ' is even.');

END IF;

v\_num := v\_num + 1;

END LOOP;

END;

/

Q7. DECLARE

v\_num NUMBER := 1;

v\_sum NUMBER := 0;

BEGIN

WHILE v\_num <= 10 LOOP

v\_sum := v\_sum + v\_num;

v\_num := v\_num + 1;

END LOOP;

DBMS\_OUTPUT.PUT\_LINE('The sum of numbers from 1 to 10 is: ' || v\_sum);

END;

/

Q8. DECLARE

N INTEGER;

S INTEGER;

R INTEGER;

BEGIN

N :=:N;

S :=0;

DBMS\_OUTPUT.PUT\_LINE('ENTERED NUMBER: '||N);

WHILE N!=0 LOOP

R :=MOD(N,10);

S :=S+R;

N := TRUNC(N/10);

END LOOP;

DBMS\_OUTPUT.PUT\_LINE('SUM OF DIGITS: '||S);

END;

/

Q9. DECLARE

NUM NUMBER;

REV NUMBER;

BEGIN

NUM := :NUM;

REV := 0;

WHILE NUM>0 LOOP

REV :=(REV \*10)+MOD(NUM,10);

NUM:=FLOOR(NUM/10);

END LOOP;

DBMS\_OUTPUT.PUT\_LINE('ENTERED NUMBER: '||:NUM);

DBMS\_OUTPUT.PUT\_LINE('REVERSE OF THE '||:NUM||' IS:'||REV );

END;

/

Q10.