**Assignment 4A**

1.

Declare

todays\_date DATE;

current\_day varchar(9);

Begin

todays\_date :=sysdate;

current\_day:=to\_char(todays\_date,'day');

current\_day:=initcap(current\_day);

current\_day:=rtrim(current\_day);

if current\_day='Sunday' or current\_day='Saturday' then

dbms\_output.put\_line('Today is fall on weekend');

Else

dbms\_output.put\_line('Today is fall on weekdays');

end if;

end;

2.

DECLARE

input\_char CHAR(1);

is\_vowel BOOLEAN;

BEGIN

input\_char := 'S';

is\_vowel := UPPER(input\_char) IN ('A', 'E', 'I', 'O', 'U');

IF is\_vowel THEN

DBMS\_OUTPUT.PUT\_LINE(input\_char || ' is a vowel.');

ELSE

DBMS\_OUTPUT.PUT\_LINE(input\_char || ' is not a vowel.');

END IF;

END;

3.

DECLARE

v\_sum NUMBER := 0;

BEGIN

FOR i IN 1..20 LOOP

v\_sum := v\_sum + i;

END LOOP;

DBMS\_OUTPUT.PUT\_LINE('Sum : ' || v\_sum);

END;

4.

DECLARE

v\_num1 NUMBER := 10; -- Change this value to & for SQL+

v\_num2 NUMBER := 5; -- Change this value to & for SQL+

v\_operator CHAR(1) := '+';

v\_result NUMBER;

BEGIN

IF v\_operator = '+' THEN

v\_result := v\_num1 + v\_num2;

ELSIF v\_operator = '-' THEN

v\_result := v\_num1 - v\_num2;

ELSIF v\_operator = '\*' THEN

v\_result := v\_num1 \* v\_num2;

ELSIF v\_operator = '/' THEN

IF v\_num2 != 0 THEN

v\_result := v\_num1 / v\_num2;

ELSE

DBMS\_OUTPUT.PUT\_LINE('Error: Division by zero.');

RETURN;

END IF;

ELSE

DBMS\_OUTPUT.PUT\_LINE('Error: Invalid operator.');

RETURN;

END IF;

DBMS\_OUTPUT.PUT\_LINE('The result of ' || v\_num1 || ' ' || v\_operator || ' ' || v\_num2 || ' is: ' || v\_result);

END;

5.

DECLARE

original\_number NUMBER := 12345;

reversed\_number NUMBER := 0;

BEGIN

WHILE original\_number > 0 LOOP

reversed\_number := reversed\_number \* 10 + MOD(original\_number, 10);

original\_number := FLOOR(original\_number / 10);

END LOOP;

DBMS\_OUTPUT.PUT\_LINE('Reversed Number: ' || reversed\_number);

END;

6.

DECLARE

v\_date DATE := TRUNC(SYSDATE, 'MM'); -- Start from the first day of the current month

BEGIN

DBMS\_OUTPUT.PUT\_LINE('Tuesdays of this month:');

WHILE v\_date < LAST\_DAY(SYSDATE) LOOP

IF TO\_CHAR(v\_date, 'DY') = 'TUE' THEN

DBMS\_OUTPUT.PUT\_LINE(TO\_CHAR(v\_date, 'DD-MM-YYYY'));

END IF;

v\_date := v\_date + 1; -- Move to the next day

END LOOP;

END;

7. declare

s NUMBER := 0;

f NUMBER :=0;

begin

for i in 1..50 LOOP

f :=0;

for j in 2..i/2 LOOP

if MOD(i,j)=0 then

f :=1;

end if;

end LOOP;

if f=0 then

dbms\_output.put\_line(i || ' is Prime');

end if;

end LOOP;

End;

8.

declare

num NUMBER:=325;

res NUMBER:=0;

begin

while num>0 LOOP

res:=res + MOD(num,10);

num:=FLOOR(num/10);

end LOOP;

dbms\_output.put\_line('result is = ' || res);

end;