1.Palidrome

```
declare
n number;
m number;
 rev number:=0;
r number;
begin
n:=12321;
m:=n;
while n>0 loop
r:=mod(n,10);
rev:=(rev*10)+r;
 n:=trunc(n/10);
end loop;
if m=rev
then
dbms_output.put_line('number is palindrome');
else
dbms_output.put_line('number is not palindrome');
end if;
end;
/
```

2.Check letter or digit

```
DECLARE
get_ctr CHAR(1) := 'abcd';
BEGIN
IF ( get_ctr >= 'A' AND get_ctr <= 'Z' )
OR ( get_ctr >= 'a'
AND get_ctr <= 'z' )
THEN
dbms_output.Put_line ('The given character is a letter');
ELSE
dbms_output.Put_line ('The given character is not a letter');
IF get_ctr BETWEEN '0' AND '9' THEN
dbms_output.Put_line ('The given character is a number');
ELSE
dbms_output.Put_line ('The given character is not a number');
END IF;
END IF;
END;
/
```

3.Factorial of a number

```
DECLARE
num number;
factorial number;
FUNCTION fact(x number)
RETURN number
IS
f number;
BEGIN
IF x=0 THEN
f := 1;
ELSE
f := x * fact(x-1);
END IF;
RETURN f;
END;
BEGIN
num:= 6;
factorial := fact(num);
dbms_output.put_line(' Factorial '|| num || ' is ' || factorial);
END;
 /
```

4.Maximum of two numbers

```
DECLARE
a number;
b number;
c number;
FUNCTION findMax(x IN number, y IN number)
RETURN
number
IS
z number;
 BEGIN
IF x > y THEN
z:= x;
ELSE
Z:= y;
END IF;
RETURN z;
END;
BEGIN
a:= 23;
b:= 45;
c := findMax(a, b);
dbms_output.put_line(' Maximum of (23,45): ' || c);
END;
/
```

5.Print Welcome to plsql

```
DECLARE
BEGIN
dbms_output.put_line('Welcome to plsql');
END;
/
```

6.Square of a number

```
DECLARE
a number;
PROCEDURE
squareNum(x IN OUT number)
IS
BEGIN
 x := x * x;
END;
BEGIN
 a:= 23;
squareNum(a);
dbms_output.put_line(' Square of (23): ' || a);
END;
 /
```

7.Biggest of three numbers

```
declare
a number:=10;
b number:=12;
c number:=5;
begin
dbms_output.put_line('a='||a||' b='||b||' c='||c);
if a>b AND a>c
then
dbms_output.put_line('a is greatest');
else
if b>a AND b>c
then
dbms_output.put_line('b is greatest');
else
dbms_output.put_line('c is greatest');
end if;
end if;
end;
/
```

8.Exception

(From table customers)

```
DECLARE

c_id customers.id%type := 8;

c_name customerS.Name%type;

c_addr customers.address%type;

BEGIN

SELECT name, address INTO c_name, c_addr FROM customers
WHERE id = c_id;

DBMS_OUTPUT.PUT_LINE ('Name: '|| c_name);
DBMS_OUTPUT.PUT_LINE ('Address: ' || c_addr);

EXCEPTION

WHEN no_data_found THEN

dbms_output.put_line('No such customer!');

WHEN others THEN

dbms_output.put_line('Error!');

END;
 /
```

9.Incentive salary

(an employee whose emp_id is 10 using the above empdesig table
DECLARE

incentive NUMBER;

BEGIN

SELECT salary * 0.20 INTO incentive FROM EMPDESIG WHERE employee_id = EMP01;

DBMS_OUTPUT_LINE('Incentive ='|| TO_CHAR(incentive));

END;

/