1. **Write a PL/SQL block to check the given number is Even or Odd**

**INPUT:**

DECLARE

num number(5);

rem number;

BEGIN

num:=&num;

rem:=mod(num,2);

if rem=0

then

dbms\_output.put\_line(' Number '||num||' is Even');

else

dbms\_output.put\_line(' Number '||num||' is Odd');

end if;

end;

**2. Write a PL/SQL block to Find Sum of Digits of a given Number**

**INPUT:**

DECLARE

num number(5);

rem number(5);

sm number(5):=0;

num1 number(5);

BEGIN

num:=&num;

num1:=num;

while(num>0)

loop

rem:=mod(num,10);

sm:=sm+rem;

num:=trunc(num/10);

end loop;

dbms\_output.put\_line('SUM OF DIGITS OF '||num1||' IS: '||Sm);

end;

/

**3: Write a PL/SQL block to find the Factorial of a Given Number**

**INPUT:**

DECLARE

num number(5);

fact number(5):=1;

k number(5);

BEGIN

num:=&num;

k:=num;

while(num>0)

loop

fact:=fact\*num;

num:=num-1;

end loop;

dbms\_output.put\_line('FACTORIAL OF '||k||' IS '||fact);

end;

# 4. Write a PL/SQL block to Generate Fibonacii Series

**INPUT:**

DECLARE

num number(5);

f1 number(5):=0;

f2 number(5):=1;

f3 number(5);

i number(5):=3;

BEGIN

num:=&num;

dbms\_output.put\_line('THE FIBONACCI SERIES IS:');

dbms\_output.put\_line(f1);

dbms\_output.put\_line(f2);

while(i<=num)

loop

f3:=f1+f2;

dbms\_output.put\_line(f3);

f1:=f2;

f2:=f3;

i:=i+1;

end loop;

end;

/

5. Write PL/SQL program to check number is prime or not

6. Write PL/SQL program to check palindrome

7. Write PL/SQL program to check Armstrong number

8. Write PL/SQL program to swap numbers without using temp variable

9. PL/SQL block for inserting rows into EMPDET table with the following calculations:

HRA=50% OF BASIC

DA=20% OF BASIC

PF=7% OF BASIC

NETPAY=BASIC+DA+HRA-PF

**INPUT:**

DECLARE

ENO1 empdet.eno%type;

ENAME1 empdet.name%type;

DEPTNO1 empdet.deptno%type;

BASIC1 empdet.basic%type;

HRA1 empdet.HRA%type;

DA1 empdet.DA%type;

PF1 empdet.pf%type;

NETPAY1 empdet.netpay%type;

BEGIN

ENO1:=&ENO1;

ENAME1:='&ENAME1';

DEPTNO1:=&DEPTNO1;

BASIC1:=&BASIC1;

HRA1:=(BASIC1\*50)/100;

DA1:=(BASIC1\*20)/100;

PF1:=(BASIC1\*7)/100;

NETPAY1:=BASIC1+HRA1+DA1-PF1;

INSERT INTO EMPDET VALUES(ENO1,ENAME1,DEPTNO1,BASIC1,HRA1,DA1,PF1,NETPAY1);

end;

**OUTPUT:**

SQL> @BASIC

Enter value for eno1: 104

old 11: ENO1:=&ENO1;

new 11: ENO1:=104;

Enter value for ename1: SRINIVAS REDDY

old 12: ENAME1:='&ENAME1';

new 12: ENAME1:='SRINIVAS REDDY';

Enter value for deptno1: 10

old 13: DEPTNO1:=&DEPTNO1;

new 13: DEPTNO1:=10;

Enter value for basic1: 6000

old 14: BASIC1:=&BASIC1;

new 14: BASIC1:=6000;

PL/SQL procedure successfully completed.

SQL>/

Enter value for eno1: 105

old 11: ENO1:=&ENO1;

new 11: ENO1:=105;

Enter value for ename1: CIRAJ

old 12: ENAME1:='&ENAME1';

new 12: ENAME1:='CIRAJ';

Enter value for deptno1: 10

old 13: DEPTNO1:=&DEPTNO1;

new 13: DEPTNO1:=10;

Enter value for basic1: 6000

old 14: BASIC1:=&BASIC1;

new 14: BASIC1:=6000;

PL/SQL procedure successfully completed.

SQL> SELECT \* FROM EMPDET;

**OUTPUT:**

ENO NAME DEPTNO BASIC HRA DA PF NETPAY

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101 SANTOSH 10 5000 2500 1000 350 8150

102 SHANKAR 20 5000 2500 1000 350 8150

103 SURESH 20 5500 2750 1100 385 8965

104 SRINIVASA REDDY 10 6000 3000 1200 420 9780

105 CIRAJ 10 6000 3000 1200 420 9780