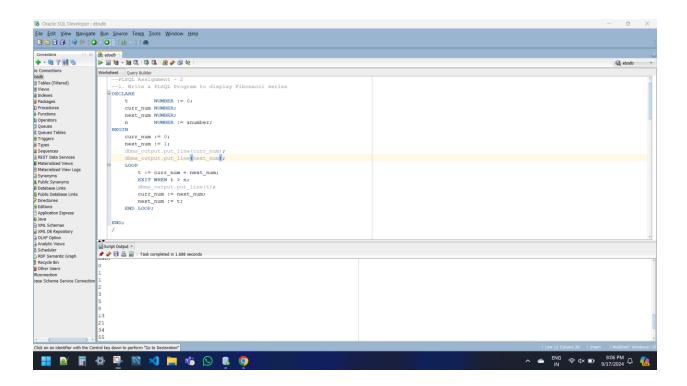
```
set serveroutput on;
--PLSQL Assignment - 2
--1. Write a PLSQL Program to display Fibonacci series
DECLARE
     NUMBER := 0;
 curr_num NUMBER;
 next_num NUMBER;
      NUMBER := &number;
 n
BEGIN
 curr_num := 0;
 next_num := 1;
 dbms_output.put_line(curr_num);
 dbms_output.put_line(next_num);
 LOOP
   t := curr_num + next_num;
   EXIT WHEN t > n;
   dbms_output.put_line(t);
   curr_num := next_num;
   next_num := t;
 END LOOP;
END;
```



--2. Write a PLSQL Program to display whether the number is Palindrome or not exa. of palindrome number - 12321, 56765 etc..

DECLARE

```
pali_num NUMBER := '&number';
a    VARCHAR2(20);
b    VARCHAR2(20);

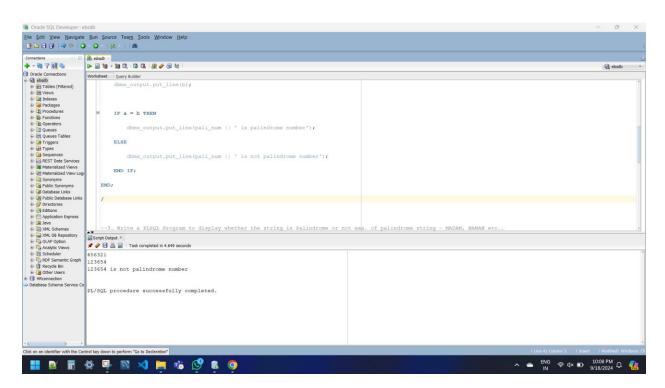
BEGIN

FOR i IN 1..length(pali_num) LOOP
    a := concat(substr(pali_num, i, 1),a);
    b := concat(substr(pali_num, -i, 1),b);

END LOOP;

dbms_output.put_line(a);
dbms_output.put_line(b);
```

```
IF a = b THEN
    dbms_output.put_line(pali_num || ' is palindrome number');
ELSE
    dbms_output.put_line(pali_num || ' is not palindrome number');
END IF;
END;
//
```



--3. Write a PLSQL Program to display whether the string is Palindrome or not exa. of palindrome string - MADAM, NAMAN etc..

DECLARE

```
pali_str varchar2(20) := '&string';
```

- a VARCHAR2(20);
- b VARCHAR2(20);

BEGIN

```
FOR i IN 1..length(pali_str) LOOP

a := concat(substr(pali_str, i, 1),a);

b := concat(substr(pali_str, -i, 1),b);

END LOOP;

dbms_output.put_line(a);

dbms_output.put_line(b);

IF a = b THEN

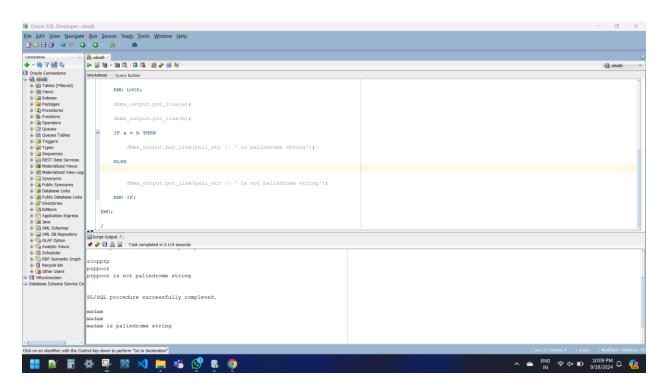
dbms_output.put_line(pali_str || ' is palindrome string');

ELSE

dbms_output.put_line(pali_str || ' is not palindrome string');

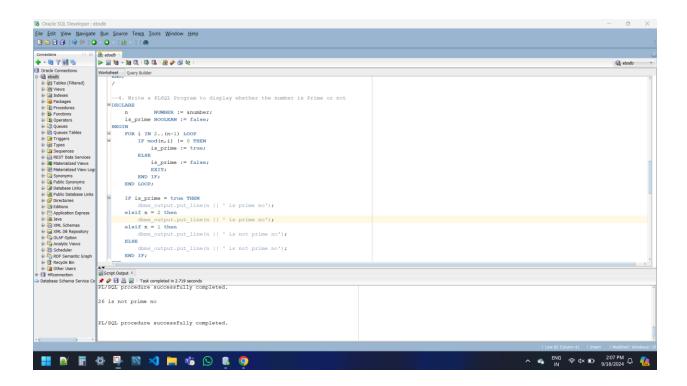
END IF;

END;
```



--4. Write a PLSQL Program to display whether the number is Prime or not

```
DECLARE
      NUMBER := &number;
  n
  is_prime BOOLEAN := false;
BEGIN
 FOR i IN 2..(n-1) LOOP
   IF mod(n,i) != 0 THEN
     is_prime := true;
   ELSE
     is_prime := false;
     EXIT;
    END IF;
  END LOOP;
 IF is_prime = true THEN
   dbms_output.put_line(n || ' is prime no');
  elsif n = 2 then
   dbms_output.put_line(n || ' is prime no');
  elsif n = 1 then
   dbms_output.put_line(n || ' is not prime no');
  ELSE
   dbms_output.put_line(n || ' is not prime no');
  END IF;
END;
```



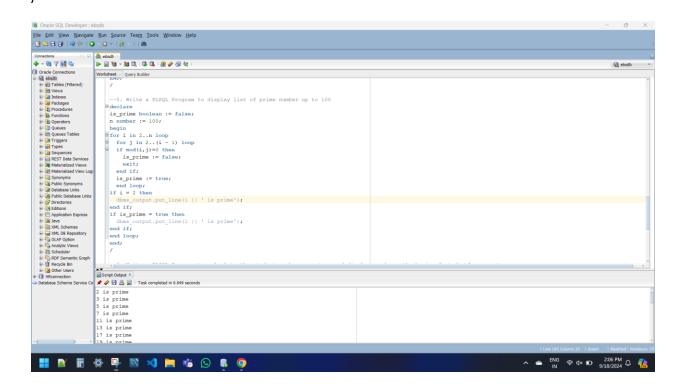
--5. Write a PLSQL Program to display list of prime number up to 100

```
is_prime boolean := false;
n number := 100;
begin
for i in 2..n loop
  for j in 2..(i - 1) loop
  if mod(i,j)=0 then
    is_prime := false;
  exit;
end if;
is_prime := true;
end loop;
```

if i = 2 then

declare

```
dbms_output.put_line(i || ' is prime');
end if;
if is_prime = true then
  dbms_output.put_line(i || ' is prime');
end if;
end loop;
end;
```

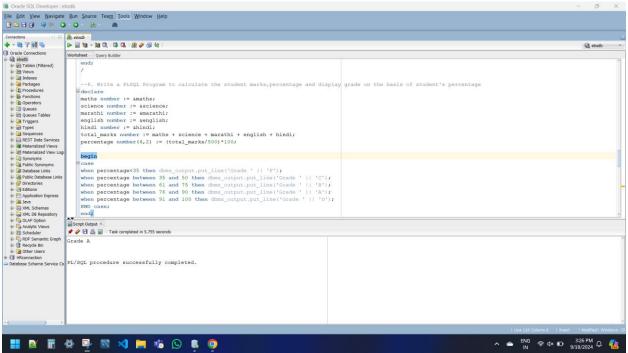


--6. Write a PLSQL Program to calculate the student marks, percentage and display grade on the basis of student's percentage

declare

```
maths number := &maths;
science number := &science;
marathi number := &marathi;
```

```
english number := &english;
hindi number := &hindi;
total_marks number := maths + science + marathi + english + hindi;
percentage number(4,2) := (total_marks/500)*100;
begin
case
when percentage<35 then dbms_output.put_line('Grade ' || 'F');
when percentage between 35 and 50 then dbms_output.put_line('Grade ' || 'C');
when percentage between 61 and 75 then dbms_output.put_line('Grade ' || 'B');
when percentage between 76 and 90 then dbms_output.put_line('Grade ' || 'A');
when percentage between 91 and 100 then dbms_output.put_line('Grade' | | 'O');
END case;
end;
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```



```
--7. Write a PLSQL Program to calculate employee salary grade on the basis of his salary.
--take the salary at runtime input and use the CASE statement for this exercise
set serveroutput on;
declare
salary number := &salary;
begin
case
 when salary between 5000 and 10000 then dbms_output.put_line(salary || ' ' || 'Minimum
salary');
 when salary between 10001 and 15000 then dbms_output.put_line(salary || ' ' || 'Avrage
salary');
 when salary between 15001 and 20000 then dbms_output.put_line(salary || ' ' || 'High
salary');
 when salary between 20000 and 25000 then dbms_output.put_line(salary || ' ' ||
'Maximum salary');
 else dbms_output.put_line('Salary must be revoked');
end case;
end;
/
--or
declare
cursor sal_grade is select employee_id, first_name, salary from employees;
begin
```

```
for e_rec in sal_grade
loop
dbms_output.put_line(e_rec.employee_id || ' ' || e_rec.first_name || ' ' || ' ' || e_rec.salary);
case
 when e_rec.salary between 5000 and 10000 then dbms_output.put_line('Minimum
salary');
 when e_rec.salary between 10001 and 15000 then dbms_output.put_line('Avrage
salary');
 when e_rec.salary between 15001 and 20000 then dbms_output.put_line('High salary');
 when e_rec.salary between 20000 and 25000 then dbms_output.put_line('Maximum
salary');
 else dbms_output.put_line('Salary must be revoked');
end case;
end loop;
end;
/
```

