Aniket Prajapati

SYCS-351

DBMS Practical No 4

1. Create and replace an empty procedure and call it.

```
SQL> set serveroutput on
SQL> create procedure aniket as
  2  begin
  3  null;
  4  end;
  5  /

Procedure created.

SQL> execute aniket;

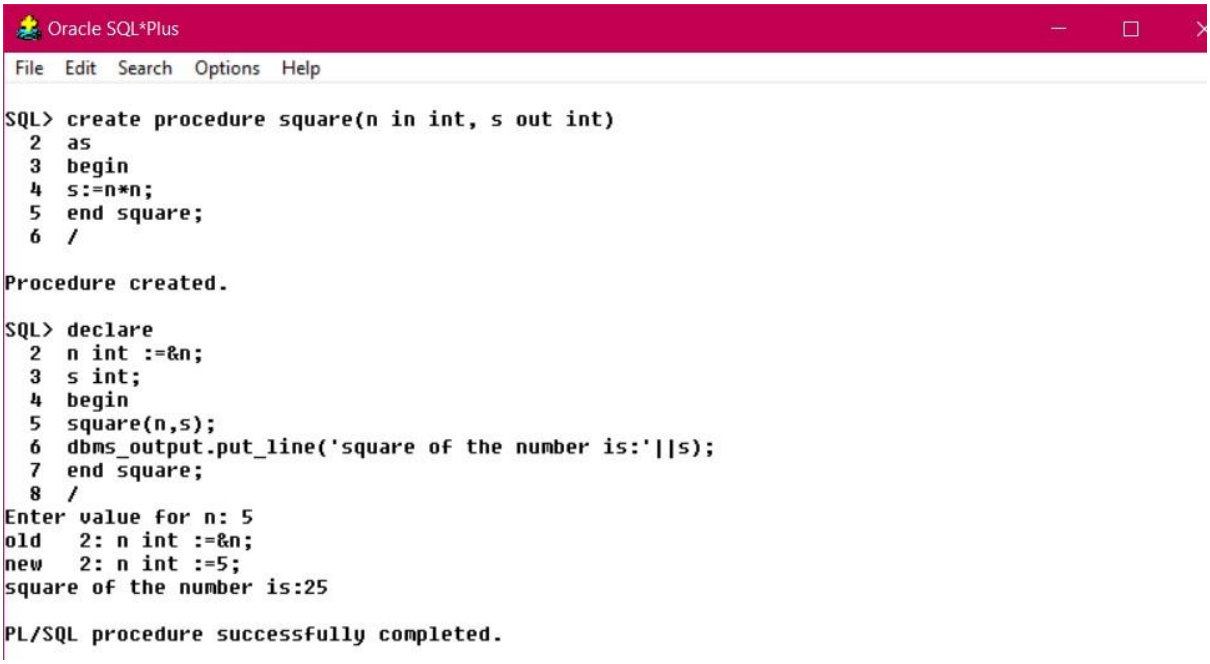
PL/SQL procedure successfully completed.

SQL> create or replace procedure aniket as
  2  begin
  3  dbms_output.put_line('Hello Aniket');
  4  end;
  5  /

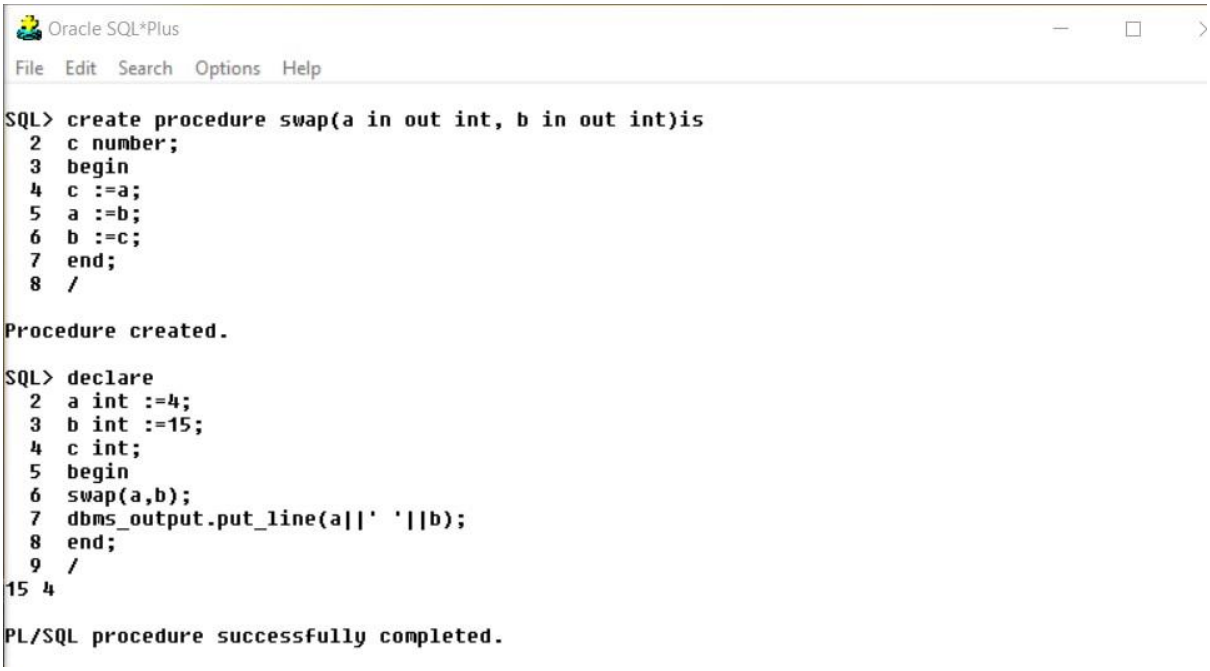
Procedure created.

SQL> execute aniket;
Hello Aniket
```

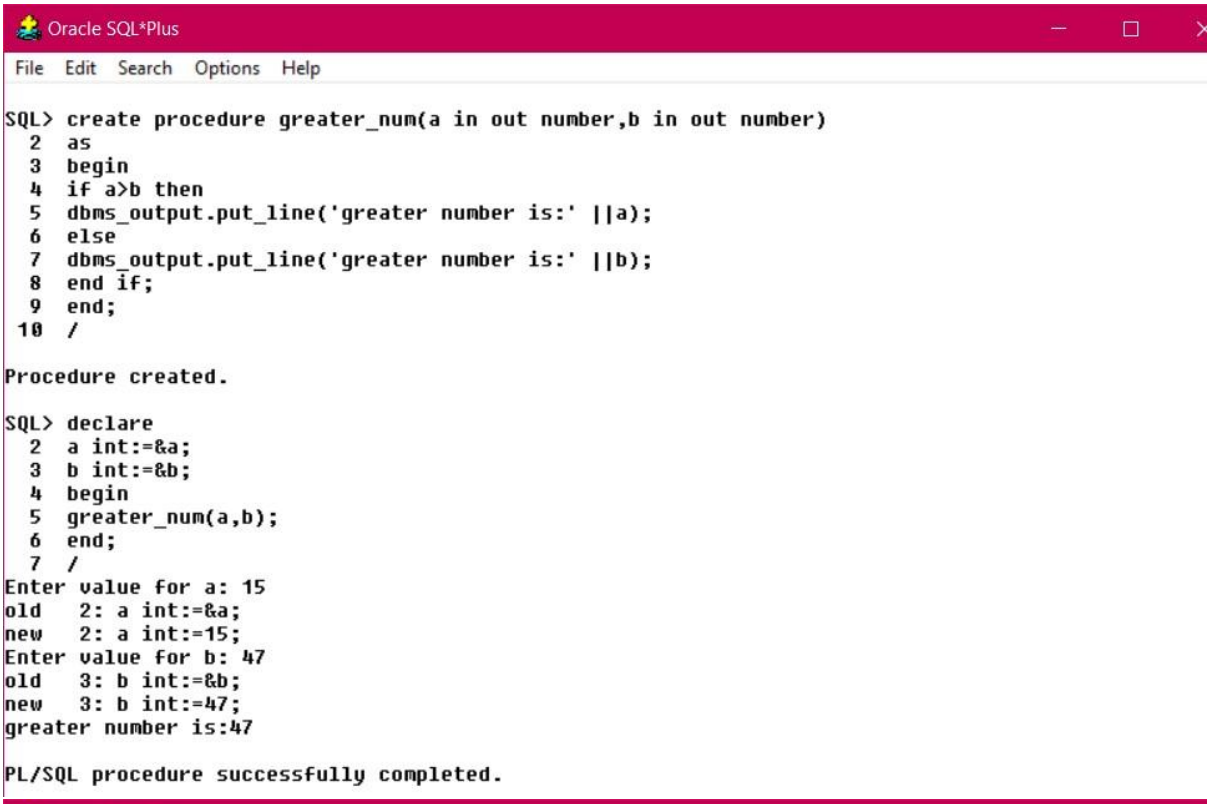
2. Create procedure and function to display square of number.

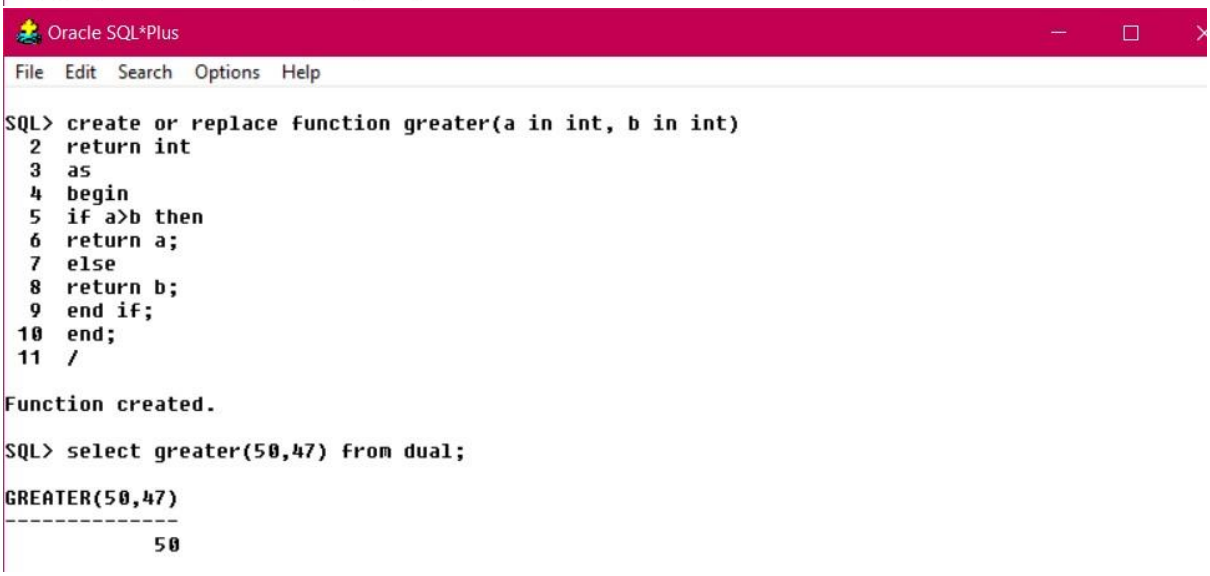


3. Create a procedure and a function to swap two numbers.

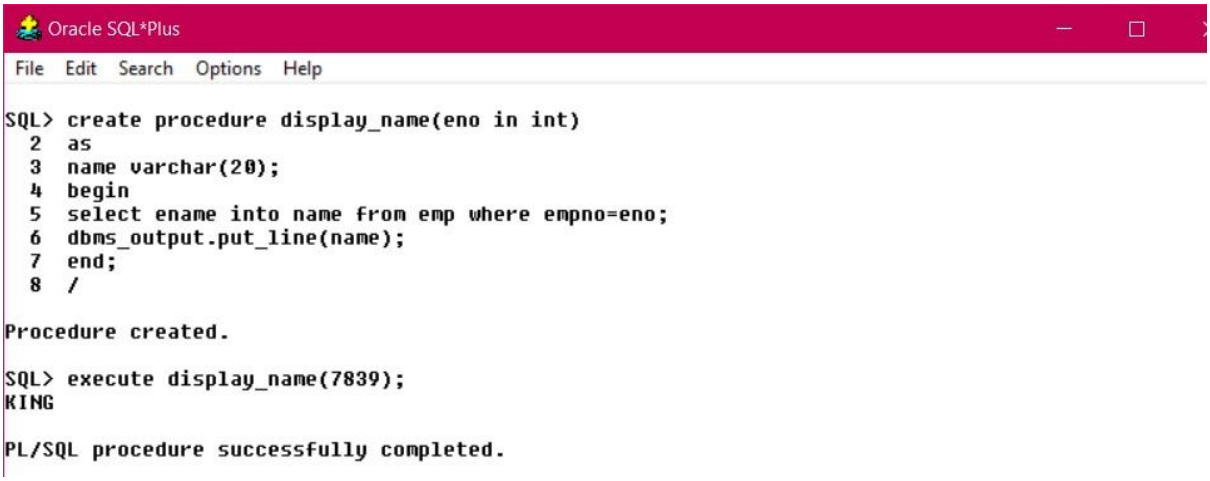


4. Create a procedure and a function to display greatest among two.

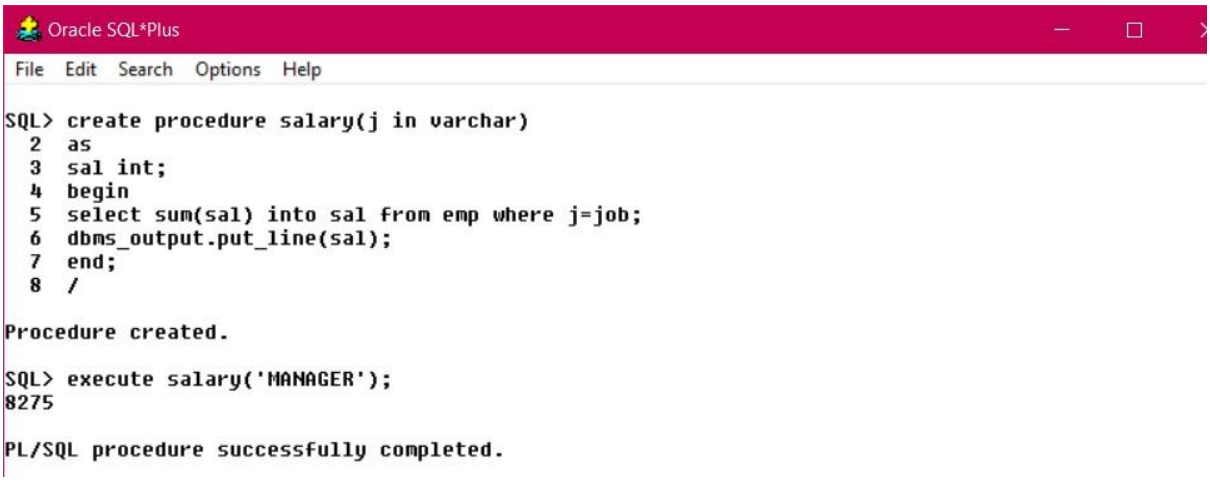




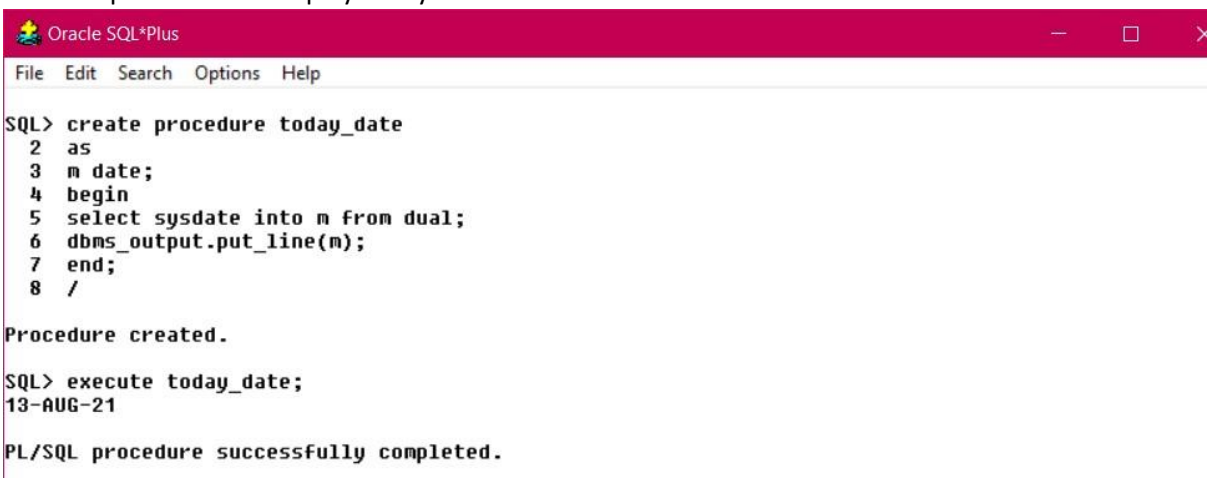
5. Create a procedure and a function to display the employee name whose employee no is accepted by user.



6. Create procedure and a function to display the sum of salary of the employees whose job is accepted by the user.



7. Create a procedure to display today's date.



8. Create a procedure to fine the factorial of a number.

9. Create a procedure to display length of a number.

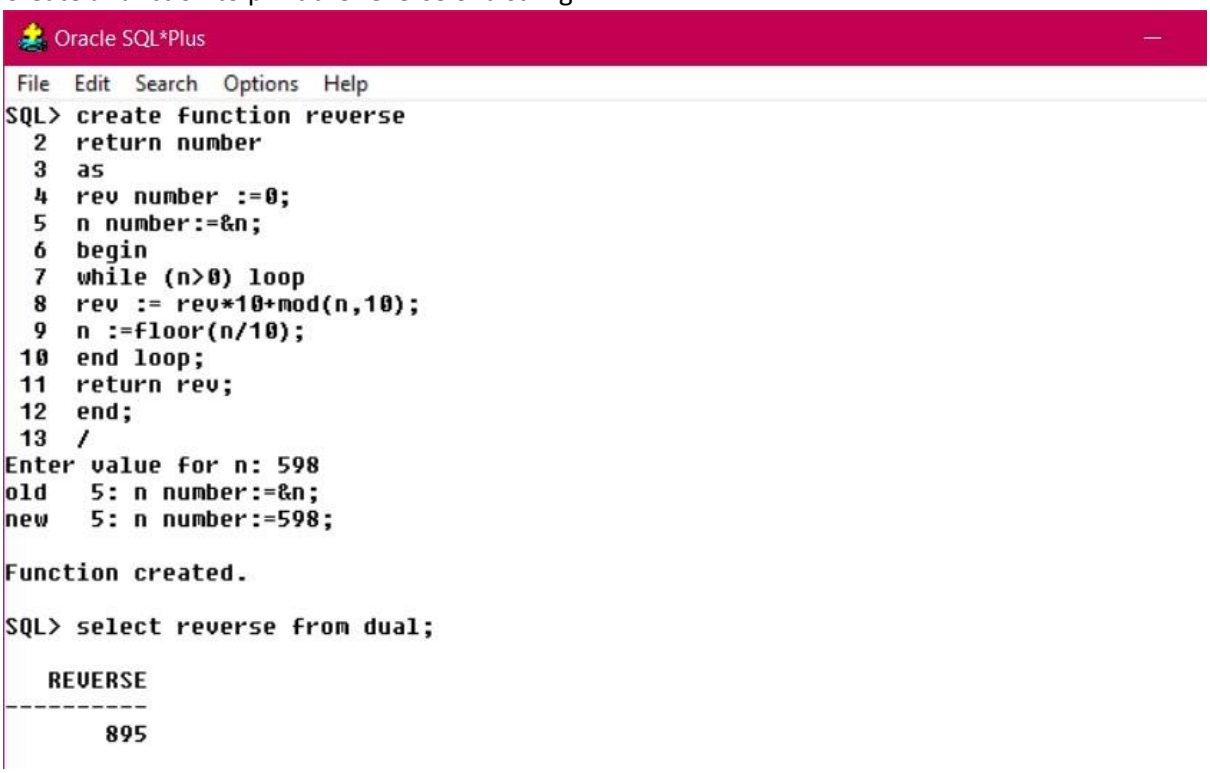
```
SQL> create procedure stringlength(str in varchar)
  2  as
  3  m date;
  4  begin
  5  dbms_output.put_line(length(str));
  6  end;
  7  /

Procedure created.

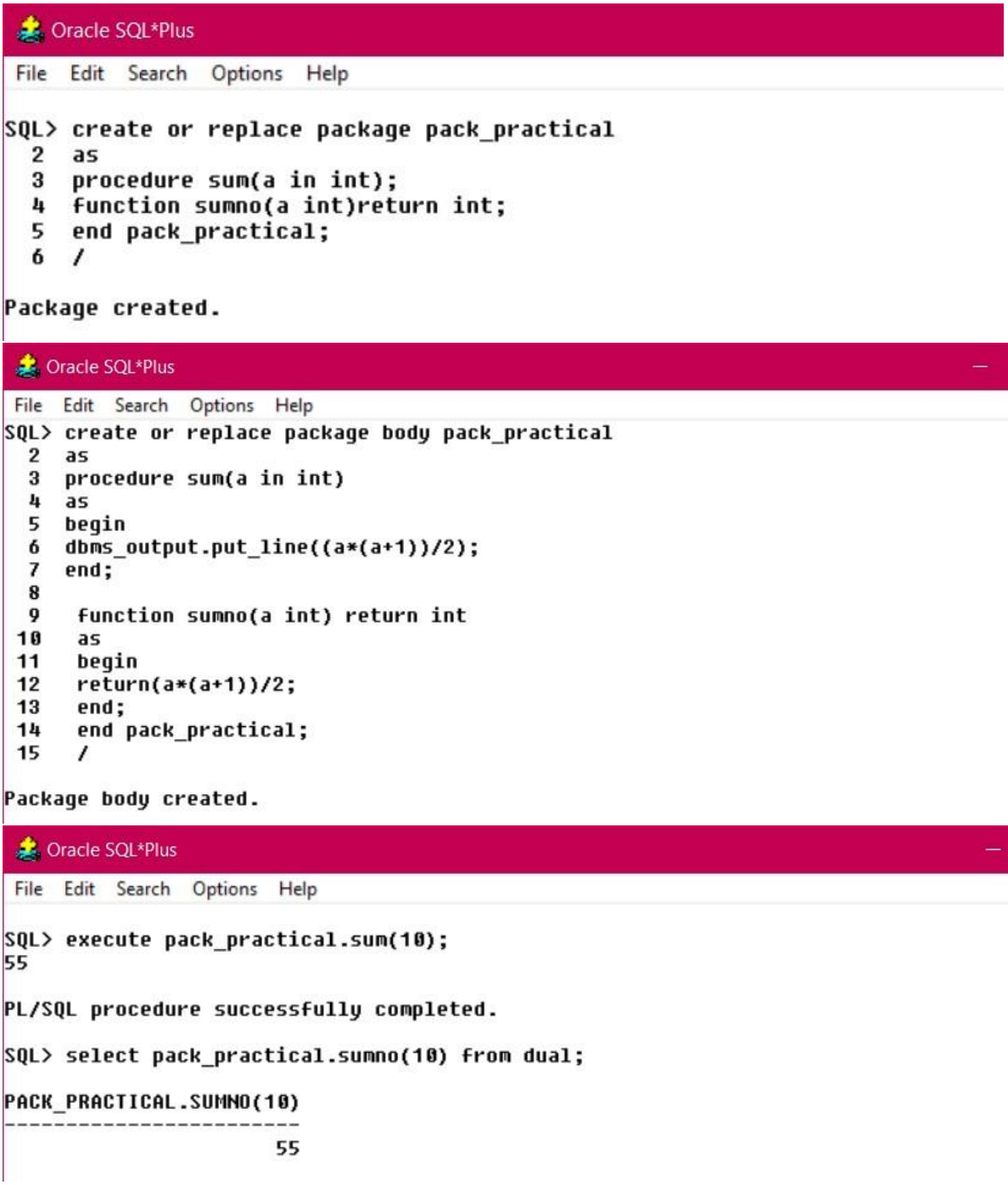
SQL> execute stringlength('HEY ANIKET');
10

PL/SQL procedure successfully completed.
```

10. Create a function to print the reverse of a string.



11. Create a package with function and procedure to fine the sum of 10 natural numbers.



```
Oracle SQL*Plus
File  Edit  Search  Options  Help

SQL> create or replace package pack_practical
  2  as
  3  procedure sum(a in int);
  4  function sumno(a int)return int;
  5  end pack_practical;
  6  /

Package created.

Oracle SQL*Plus
File  Edit  Search  Options  Help
SQL> create or replace package body pack_practical
  2  as
  3  procedure sum(a in int)
  4  as
  5  begin
  6  dbms_output.put_line((a*(a+1))/2);
  7  end;
  8
  9   function sumno(a int) return int
 10   as
 11   begin
 12   return(a*(a+1))/2;
 13   end;
 14   end pack_practical;
 15   /

Package body created.

Oracle SQL*Plus
File  Edit  Search  Options  Help

SQL> execute pack_practical.sum(10);
55

PL/SQL procedure successfully completed.

SQL> select pack_practical.sumno(10) from dual;

PACK_PRACTICAL.SUMNO(10)
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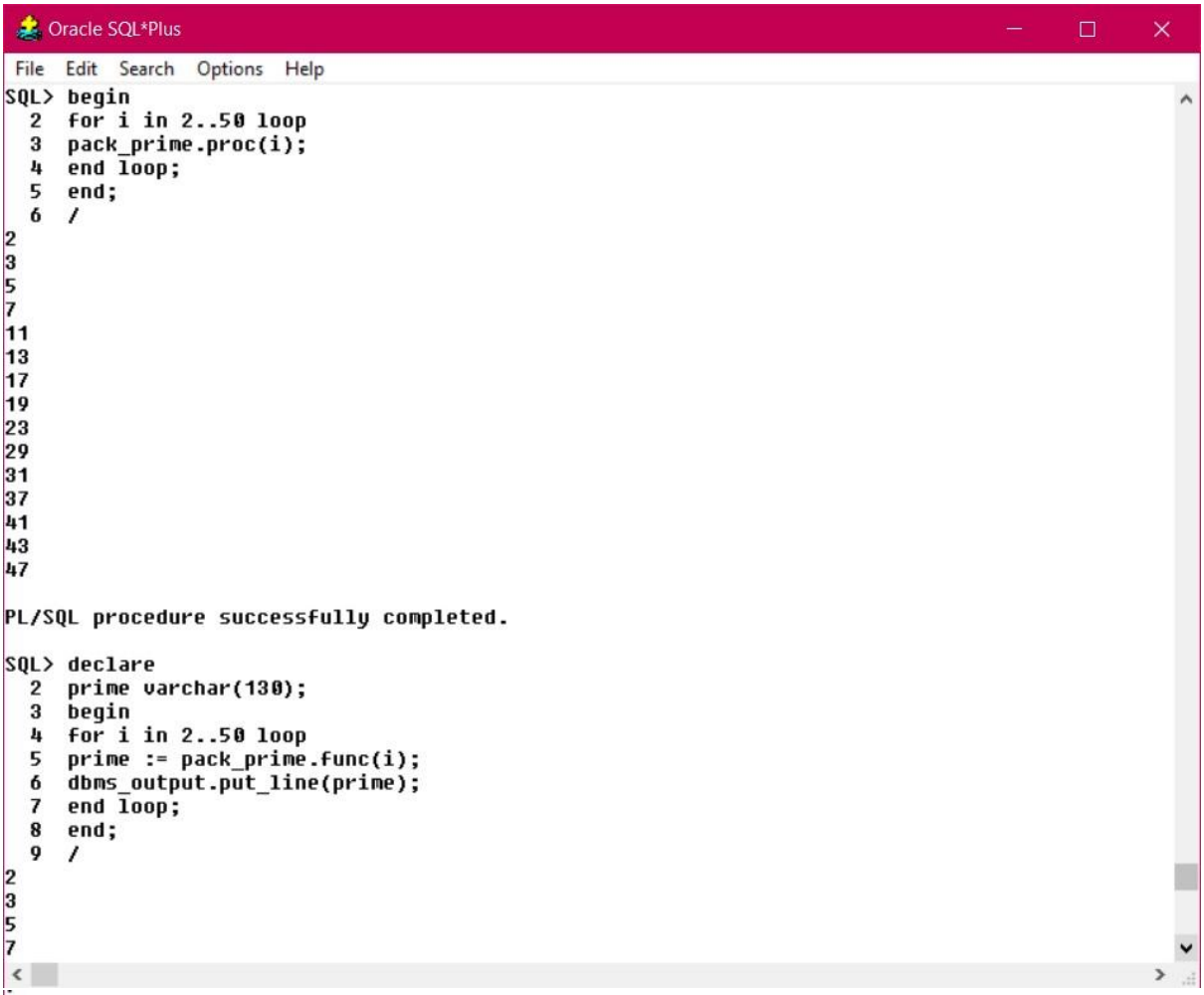
                      55
```

12. Create a package with a function and procedure to print the prime numbers between 1 to 50.


Oracle SQL*Plus
File Edit Search Options Help
SQL> create or replace package pack_prime
  2 as
  3 procedure proc(a in int);
  4 function func(a int) return varchar;
  5 end pack_prime;
  6 /
Package created.
SQL> create or replace package body pack_prime
  2 as
  3
  4 procedure proc(a in int)
  5 as
  6 b number :=0;
  7 c number :=2;
  8 begin
  9 while c<a loop
 10 if remainder(a,c)=0 then
 11 b:=1;
 12 exit;
 13 end if;
 14 c:=c+1;
 15 end loop;
 16 if b=0 then
 17 dbms_output.put_line(a);
 18 end if;
 19 end;
 20
 21 function func(a int)return varchar
 22 as
 23 b number:=0;
 24 c number:=2;
 25 prime varchar(130):='';
 26 begin
 27 while c<a loop
 28 if remainder(a,c)=0 then
 29 b:=1;
 30 exit;
 31 end if;
 32 c := c+1;
 33 end loop;
 34 if b=0 then
 35 prime :=prime||a;
 36 end if;
 37 return prime;
 38 end;
 39 end pack_prime;
 40 /
Package body created.

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PL/SQL procedure successfully completed.

SQL>
```