Assignment:

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Palindrome:

```
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;
```

prime number:

```
declare
```

```
-- declare variable n, i
-- and temp of datatype number
n number;
i number;
temp number;

begin

-- Here we Assigning 10 into n
n := 13;

-- Assigning 2 to i
i := 2;

-- Assigning 1 to temp
temp := 1;

-- loop from i = 2 to n/2
   for i in 2..n/2
     loop
         if mod(n, i) = 0
         then
             temp := 0;
             exit;
         end if;
     end loop;

     if temp = 1
     then
         dbms_output.put_line('true');
     else
         dbms_output.put_line('false');
     end if;
end;
```

factorial:

```
declare
-- it gives the final answer after computation
```

```
fac number :=1;

-- given number n
-- taking input from user
n number := &1;

-- start block
begin

-- start while loop
while n > 0 loop

-- multiple with n and decrease n's value
fac:=n*fac;
n:=n-1;
end loop;
-- end loop

-- print result of fac
dbms_output.put_line(fac);

-- end the begin block
end;
```

odd or even:

```
DECLARE
    -- Declare variable n, s, r, len
    -- and m of datatype number
    n NUMBER := 1634;
    r NUMBER;
BEGIN
    -- Calculating modulo
    r := MOD(n, 2);

    IF r = 0 THEN
      dbms_output.Put_line('Even');
    ELSE
```

```
        dbms_output.Put_line('Odd');
    END IF;
END;
```

Greatest of 3 nos:

```
DECLARE
    --a assigning with 46
    a NUMBER := 46;
    --b assigning with 67
    b NUMBER := 67;
    --c assigning with 21
    c NUMBER := 21;
BEGIN
    --block start
    --If condition satrt
    IF a > b
       AND a > c THEN
       --if a is greater then print a
       dbms_output.Put_line('Greatest number is '
                            ||a);
    ELSIF b > a
          AND b > c THEN
       --if b is greater then print b
       dbms_output.Put_line('Greatest number is '
                            ||b);
    ELSE
       --if c is greater then print c
       dbms_output.Put_line('Greatest number is '
                            ||c);
    END IF;
--end if condition
END;
```

1.

```
select *from testdata;
```

2.

```
select *from testdata where price>200;
```

3.

```sql
select *from testdata order by desc;
```

4.

```sql
select *from testdata where price>200 and price<400 or price = 0;
```

5.

```sql
select *from testdata where price>=200 and price<=900;
```

6.

```sql
select sum(price), avg(price) from testdata;
```

7.

```sql
select *from testdata where price between 200 and 400;
```

8.

```sql
select *from testdata where productName like 's%';
```