Truck 7: Procedure furtion and loops: Program why PLISQU Procedures, Function 45 loops Aim: to implement PLISQL procedures, Andian and loops on number theory and business somewor. 1 simple PLISQL program (static Input) DECLARE Message VAR(HAR 2 (20)! = 'Booking closed' BEGIN dbms - output. put-IMe (Hessage); END, output: Booking dojad. o carditiand statement (bynamic Input): DECLARE hid NUMBER (3) : = 100; BEGIN If (hid = 10) THEN dbons - output . put - line (value of hid is 10'); ELSTF [hid = 20) THEN albus - output. put - line (whe of hid is 20'); ERIE (My = 30) THEN dbms - output put - line (value of Lid is 00/1); dons - output put line (Name of the values mothers); ELSE db ms - output . put -line ('Erract value of hid is (Lid)); BUD IF:

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output:
   None of the value is matching
   Extract value of hid in = 100
              loops Example:
  PECLARE
           NUMBER (1);
      hid
            NUMBER (1);
      Did
  BEGIN
      LL outer -- loop >2
      fa Wid IN 1...3 100P
      20 inner -- loop >>
          oid IN 1... 3 1008
          doms - output . put-line ("hid is : 11 hid 11 and oid
      for
                                  15:11 ond)
          Loop inner -topp;
     END
          loop outer -loop;
     END
 END';
output :
                  old 1s:1
     is: 1 and
hid
         ! 1 and oid is:2
     is: I and old is:
     is: 2 and old is: 1
hid
     is: 2 and old is:2
Lid
Nid
   is:2 and oid is:3
hid
   is: 3 and old is:)
hid
    15:3 and old is:2
hid
    is: 4 and old is: 3.
hid
```

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4. Proceduse Example
       OR REPLACE PROCEDURE bashing - Slow
CREATE
(RID IN NOVER)
ZS
BEGIN
      If c-id > 200 HEN )
         dbms - endput . put - line ("Ho besting overlabe");
         dbms - output. put - line ('Bodies open')
      ELSE
      END IF;
END;
Execution
BEGITN
     booking - Status (150);
     booking - Status (20);
END ;
output:
Booking open.
No booking available.
PLISQL Procedure for 100fs.
Example 1: Using WHILE loop with words.
        prime check using while 1899.
                       PROCEDORE print - print - without 25
CREATE -OR PEPLACE
             cugt - cua IS
         SELECT customes = id from customes;
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vid NUMBER;
   V- is - Prime BOOLEAN;
    V_ I NUMBER ;
BEGIN
   open cust - un;
   Loop
     FETCH cust - cun INTO V-id;
     EXIT THEN CUST - WAY 1. NOT FOUND;
     If V-Id L2 THEN
          v-is- prime := FALSE;
     ELSE
          V-15 - Prime := TRUE ;
           v-1=2;
          WHILE V-1 L=TRUNC (SQRT (V-1d) LOOP)
             If MOD (v-id 1 v-i) =0 THEN
                 V-15- prime := FALSE ;
                 i TIX3
            END IF ;
            V-1:=V-1+1;
          END LEOP;
        END IF;
     If V-is-prime THEN
        DBMS_ OUTPUT. PUT-LINE 1º Prime CUNTARION ID:
                                       11v-id);
        END IF;
       END LOOP;
      crose cust - cm;
     END;
```

The procedure checks all custamer iss in the folia and prints the prime are's using a Utilt loop. loop for first in princi number. Example 2: Using for OR REPLACE PROCEDURE print - first-n-princes CREATE (n number) IS V= num NUHBER := 2; V- UNT NUMBER := 0; V- is - Prime BOOLEAN; BEGIN WHILE V-count in loop V-1s-prime := Frul; FX I IN 2 ... TRUNC (SQRT (V-rum)) LODE If MOD (v. nom) = 0 THEN V- is - prime := FACSE; EXIT ; BND IF; VEL TECH-CSE EX NO. END LOOP ; PERFORMANCE (5) TE V- is - Print RESULT AND ANALYSIS (5) VIVA VOCE (5) END FF 7 RECORD (5) U- num ; = V SIGN WITH DATE END Loop; procedure prints the first N prine numbers using This a for Loop print - first - n - prime 5 (10); BEGIN Thus, the procedure fuction and loops END ; 2 Rosult PLISAL procedure, fuctions and why program loops see executed successfully.