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| A picture containing drawing, stop, room  Description automatically generated | Database Management Systems  Practical #7 | | |
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| **Subject/Course:** | Database Management Systems / BSc IT | | |
| **Practical 9** | PLSQL Basics | | |
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| **Write PL/SQL program with Output as Screen shots for the following Questions.**   1. Write a PL/SQL block to check whether the number entered by the user is even or odd. 2. Write a PLSQL block to find factorial of a number given by the user. 3. Write a PL/SQL block to check whether the given number is positive or negative or neutral. 4. Write a PL/SQL block to check prime number or not. 5. Write a PLSQL block Performing Arithmetic Operations accepting value from user. 6. Write a PLSQL block find the grade of Student using CASE statement. 7. Write a PLSQL block to print number between 1 to 10 using for, while, loop. | | | |
| |  | | --- | | **1. DECLARE**  **n NUMBER := 1634;**  **r NUMBER;**  **BEGIN**  **r := MOD(n, 2);**  **IF r = 0 THEN**  **dbms\_output.Put\_line('Even');**  **ELSE**  **dbms\_output.Put\_line('Odd');**  **END IF;**  **END;**    **OUTPUT :**    **2. set serveroutput on**  **declare**  **num number := 6;**  **fact number := 1;**  **temp number;**  **begin**  **temp :=num;**  **while( temp>0 )**  **loop**  **fact := fact\*temp;**  **temp := temp-1;**  **end loop;**  **dbms\_output.put\_line('factorial of '|| num || ' is ' || fact);**  **end;**  **OUTPUT:**    **3. set serveroutput on**  **DECLARE**  **num1 NUMBER := &get\_num;**  **BEGIN**  **IF num1 < 0 THEN**  **DBMS\_OUTPUT.PUT\_LINE ('The number '||num1||' is a negative number');**  **ELSIF num1 = 0 THEN**  **DBMS\_OUTPUT.PUT\_LINE ('The number '||num1||' is equal to zero');**  **ELSE**  **DBMS\_OUTPUT.PUT\_LINE ('The number '||num1||' is a positive number');**  **END IF;**  **END;**  **/**  **OUTPUT :**  **4. declare**  **n number;**  **i number;**  **temp number;**  **begin**  **n := 13;**  **i := 2;**  **temp := 1;**  **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;**    **OUTPUT :**    **5. set serveroutput on**  **BEGIN**  **dbms\_output.put\_line( 10 + 5);**  **dbms\_output.put\_line( 10 - 5);**  **dbms\_output.put\_line( 10 \* 5);**  **dbms\_output.put\_line( 10 / 5);**  **dbms\_output.put\_line( 10 \*\* 5);**  **END;**  **/**    **OUTPUT :**    **6. Set serveroutput on**  **declare**  **per number;**  **Begin**  **per:=&per;**  **case per**  **when 8 then DBMS\_OUTPUT.PUT\_LINE('Your grade: A');**  **when 7 then DBMS\_OUTPUT.PUT\_LINE('Your grade: B');**  **when 6 then DBMS\_OUTPUT.PUT\_LINE('Your grade: C');**  **when 5 then DBMS\_OUTPUT.PUT\_LINE('Your grade: D');**  **else**  **DBMS\_OUTPUT.PUT\_LINE('Your grade: F');**  **end case;**  **end;**  **OUTPUT:**  **7. Set serveroutput on**  **Declare**  **I number;**  **Begin**  **I:=1;**  **While (I<=10)**  **loop**  **Dbms\_output.put\_line(I);**  **I:=I+1;**  **End loop;**  **End;**  **OUTPUT :** | | | | |
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