Assignment 4

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1. Write a PL/SQL code to print Today is fall on weekend or weekdays using if else statement.

Ans:

```
set serveroutput on
declare
  today_date DATE;
  today_day varchar(9);
begin
  today_date := sysdate;
  today_day := to_char(today_date,'day');
  today_day :=initcap(today_day);
  if today_day like'Sunday%' or today_day like'Saturday%' then
    dbms_output.put_line(today_day||' is weekend');
```

```
        else

                dbms_output.put_line(today_day||' is weekday');

        end if;

end;
```

```
Statement processed.
Wednesday is weekday
```

2. Write a PL/SQL code to check that an inputted a single character is vowel or not .If vowel then display which vowel it is.

```
DECLARE
   input_char CHAR(1) ;

BEGIN
   input_char := 'a';

   IF input_char IN ('A', 'E', 'I', 'O', 'U') THEN
      DBMS_OUTPUT.PUT_LINE('The input character is a vowel and it is: ' || input_char);
   ELSE
      DBMS_OUTPUT.PUT_LINE('The input character is not a vowel.');
   END IF;
END;
/
```

```
Statement processed.
The input character is not a vowel.
```

3. Write a PL/SQL code block to find out the sum of first twenty natural numbers (1+2+3+4+5+6+7+8+9+10+-----+20 this series).

```
DECLARE

   total_sum NUMBER := 0;

BEGIN

   FOR i IN 1..20 LOOP

      total_sum := total_sum + i;

   END LOOP;



   DBMS_OUTPUT.PUT_LINE('The sum of the first twenty natural numbers is: ' || total_sum);

END;

/
```

```
Statement processed.
The sum of the first twenty natural numbers is: 210
```

4. Write a PL/SQL block that will ask for two numbers and one operand (+, -, *, /). Then it will calculate and display the result.

```
declare

x int := 5;

y int := 4;

op char(1) := '*';

begin

case op

when '+' then dbms_output.put_line('Theoutput is: '|| x+y);

when '-' then dbms_output.put_line('The
```

```
output is: '|| x-y);

when '*' then dbms_output.put_line('The

output is: '|| x*y);

when '/' then dbms_output.put_line('The

output is: '|| x/y);

end case;

end;
```

```
Statement processed.
The
output is: 20
```

5. Write a PL/SQL code block to display a number in reverse way.

5. Write a PL/SQL code block to display a number in reverse way.

```
declare

x int;

begin

x := 231;

dbms_output.put_line('The digits of the number

in reverse order : ');

while(x>0) loop

dbms_output.put_line(' '|| mod(x,10));

x := x/10;

end loop;

end;
```

```
Statement processed.
The digits of the number
in reverse order :
 1
 3
 2
```

6. Write a PL/SQL block to display the dates of this month which are Tuesday.

```
declare

i int:= 3; --1st Tuesday is at 3rd Oct

begin

dbms_output.put_line('The Tuesdays in October

2023 is : ');

while(i<=31) loop

dbms_output.put_line(' '||i);

i:=i+7;

end loop;

end;
```

```
Statement processed.
The Tuesdays in October
2023 is :
 3
 10
 17
 24
 31
```

7. Write a program in PL/SQL to print the prime numbers between 1 to50.

```
declare

i int;

j int;

cnt int := 0;
```

```
begin

for i in 1 .. 50 loop

cnt:=0;

for j in 1 .. i loop

if(MOD(i,j)=0) then

cnt:=cnt+1;

end if;

end loop;

if(cnt=2) then

dbms_output.put_line(' '||i);

end if;

end loop;

End;
```

```
Statement processed.
 2
 3
 5
 7
 11
 13
 17
 19
 23
 29
 31
 37
 41
 43
 47
```

8. Write a program in PL/SQL to print the sum of digits of a number [eg: 635=14].

```
DECLARE

   numb int :=512;
```

```
t_sum int:=0;
BEGIN
   dbms_output.put_line('original number : '||numb);
   while numb!=0 loop
t_sum:= t_sum+remainder(numb,10);
numb:=floor(numb/10);
end loop;
dbms_output.put_line('sum digits :'||t_sum);
END;
```

```
Statement processed.
original number : 512
sum digits :8
```