DBMS Assignment - 5

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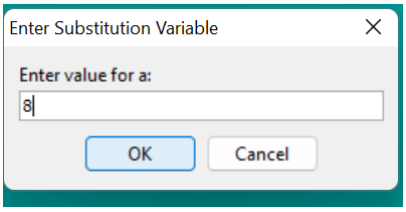
Section : B

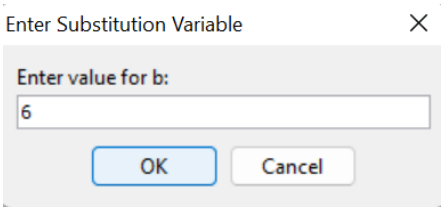
1. Write a PL/SQL program to input two numbers and display the total and average of these numbers.

Code :

```
SET SERVEROUTPUT ON;

DECLARE
   -- taking input for variable a
   a number := &a;

   -- taking input for variable b
   b number := &b;
   c number;
BEGIN
   c:=a+b;
   dbms_output.put_line(c);

END;
```

Output :





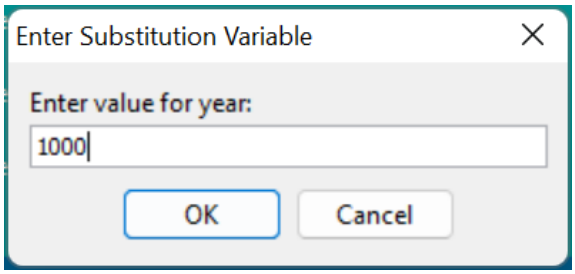

```
14


PL/SQL procedure successfully completed.
```

2. Write a PL/SQL block to accept a year and check whether it is a leap year or not?

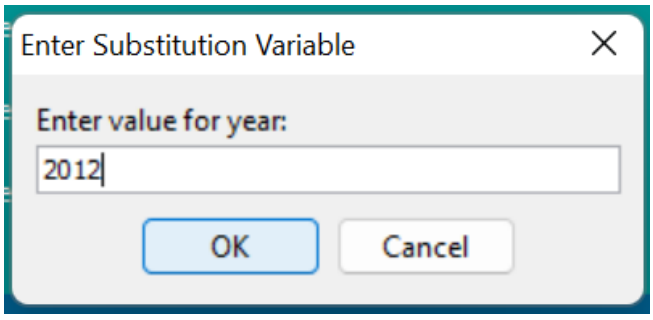
Code :

```
SET SERVEROUTPUT ON;

DECLARE
    year number :=&year;
BEGIN
    IF(REMAINDER(year,100)=0 AND REMAINDER(year,400)<>0) THEN
        dbms_output.put_line('Entered year is not a leap year');
    ELSIF(REMAINDER(year,4)=0) THEN
        dbms_output.put_line('Entered year is leap year');
    ELSE
        dbms_output.put_line('Entered year is not a leap year');
    END IF;
END;
```

Output :




```
Entered year is not a leap year


PL/SQL procedure successfully completed.
```



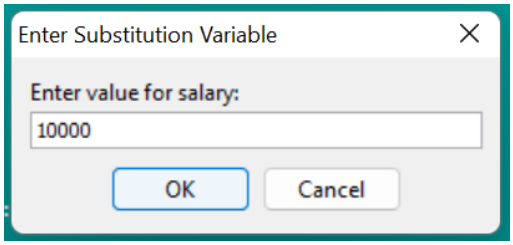

```
Entered year is leap year


PL/SQL procedure successfully completed.
```

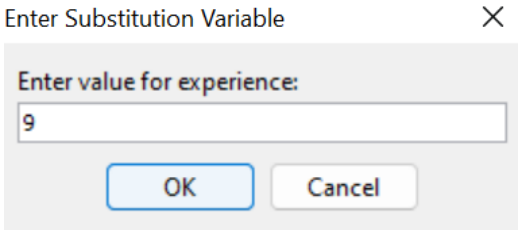
3. Write a program to input the salary and working experience of employee and calculate the bonus as 10% of salary. Give $500. Extra bonus to those who's working experience More than 10 years.

Code :

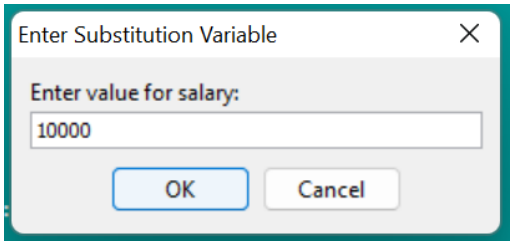
```
SET SERVEROUTPUT ON;

DECLARE
    salary number :=&salary;
    experience number := &experience;
    bonus number;

BEGIN
    bonus:=0.1*salary;
    IF (experience>10) THEN
        bonus:=bonus+500;
    END IF;
    dbms_output.put_line('Bonus is : ' ||bonus);

END;
```

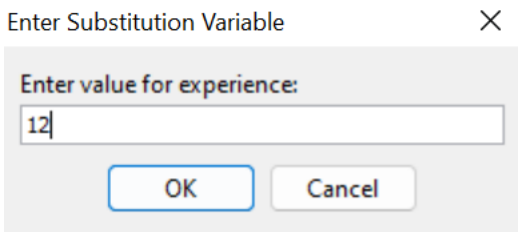
Output :






```
Bonus is : 1000


PL/SQL procedure successfully completed.
```





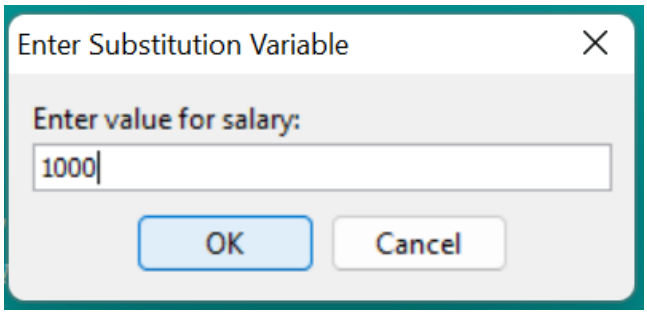

```
Bonus is : 1500


PL/SQL procedure successfully completed.
```

4. Write a PL/SQL program to input the Basic Salary and calculate the HRA, DA and Net Salary.

Code :

```
DECLARE
    salary number :=&salary;
    hra number;
    da number;
    net_salary number;

BEGIN
    hra:=0.5*salary;
    da:=0.42*salary;
    net_salary:=salary+hra+da;
    dbms_output.put_line('HRA is :  '||hra);
    dbms_output.put_line('DA is :  '||da);
    dbms_output.put_line('Net Salary is :  '||net_salary);

END;
```

Output :



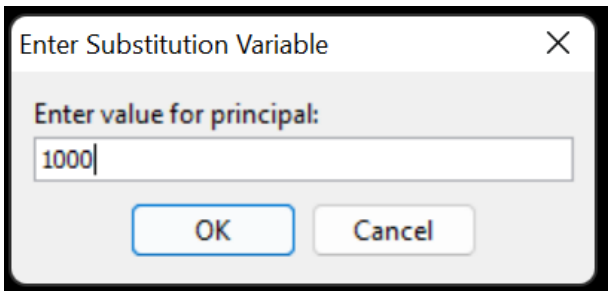

```
HRA is :  500
DA is :  420
Net Salary is :  1920


PL/SQL procedure successfully completed.
```

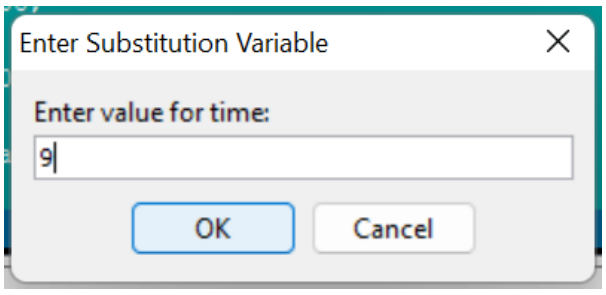
5. Program to input principal amount, time. If time more than 10 years, calculate the simple interest with 8% interest otherwise with 6%.

Code :

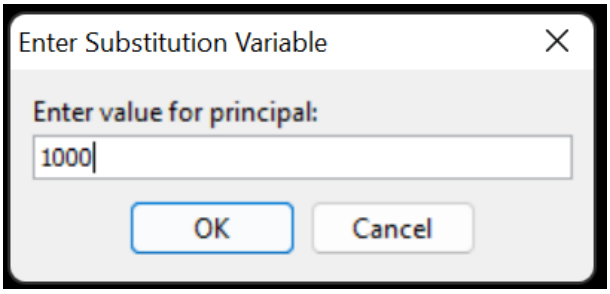
```
SET SERVEROUTPUT ON;

 DECLARE
    principal number:=&principal;
    time number:= &time;
    interest number;

BEGIN
    IF(time>10) THEN
        interest:=principal*time*0.08;
    ELSE
        interest:=principal*time*0.06;
    END IF;
    dbms_output.put_line('Interest amount : '||interest);
END;
```

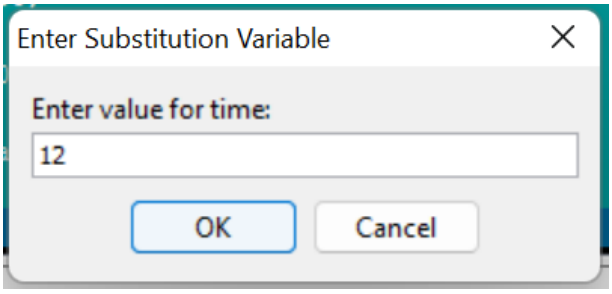
Output :






```
Interest amount : 540


PL/SQL procedure successfully completed.
```






```
Interest amount : 960


PL/SQL procedure successfully completed.
```

6. Write the Code to input the employee's number and print the name and salary of that employee.

Code :

We first make the tables :

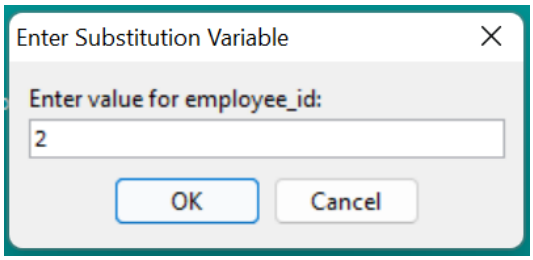
```
create table employee(
    id_number int,
    employee_name varchar(30),
    salary int
);

insert into employee values(1,'Naman',10000);
insert into employee values(2,'Ankit',20000);
insert into employee values(3,'Harshit',15000);
```

	ID_NUMBER	EMPLOYEE_NAME	SALARY
1	1	Naman	10000
2	2	Ankit	20000
3	3	Harshit	15000

Logic part :

```
SET SERVEROUTPUT ON;

DECLARE
    employee_id number :=&employee_id;
    employee_name varchar(20);
    salary number;

BEGIN
    SELECT salary,employee_name into
    salary,employee_name
    from employee
    where id_number=employee_id;

    dbms_output.put_line('Employee Name : '||employee_name);
    dbms_output.put_line('Employee Salary : '||salary);
END;
```

Output :




```
Employee Name : Ankit
Employee Salary : 20000


PL/SQL procedure successfully completed.
```

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