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VASIREDDY VENKATADRI INSTITUTE OF TECHNOLOGY VVIT
Exp-6
Date
Aim: Write a PLISAL to add two numbers
PLISAL:
       declare
           a number := 30;
            b number: =13;
            c humber;
      begin
           C:=a+b;
           dbms_output.put_line('sum of' ||all'and' ||bll
                 'is' 11 c);
      end;
```

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Exp-7
Date
Aim: Write a PLISAL to check whether the given number is
even or odd
PL/Sal:
     declare
        a number: = '&a';
     begin
        if (mod (a,2)=0) then
           dbms_output.put_line(a 11 ' is even');
        else
           dbms_output.put_line(all 'is odd');
        end if;
     end;
```



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Expt-8
Date
Aim: Write a PLISAL to generate natural number using
various loops.
PLISAL:
     declare
         a number : = &a;
         i number := 1;
     begin
         if (a>0) then
            for i in 1..a
            loop
            dbms_output.put-line(1);
            end loop;
        end if;
    end;
```



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Expt-9
Date
Aim: Write a PLISAL to find the roots of quadratic equa.
tion.
PLSQL:
  declare
     a number: = &a;
     b number: = & b;
     c number: = &c;
     d number:
     ri number;
     ra number;
  begin
    d:= b*b-4*a*c;
    if (d>0) then
       Y1:= (-b+sq, rt(d))/(2*a);
       ra:=(-b-sqrt(d))/(2*a);
      dbms_output.put_line ('the roots are' 11 r1 11 'and' 11 r211);
   else if (d=0) then
       r1:=-b/(2*a);
       dbms_output.put_line ('the roots are' 11 1211 'and' 11 1211);
   else
       r1:= -b/(2*a);
       r2:= sqrt(-d)/(&*a);
      dbms_output.put_line ('the roots are' 117111' and '11'+i'
               11 12 11 11 11 1 - 11 11 12);
   end if:
end;
```

(Autonomous)



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Expt-10
Date
Aim: Write a PLISAL to check whether the given number
is prime or not.
PLISAL:
   declare
      n number: =&n;
      i number := 1;
      cnt number := 0;
  begin
      for i in I.. h
        loop
        if (mod (n,i)=0) then
            Cnt:= cnt+1;
        end if:
        end loop;
     if (cnt = 2) then
       dbms_output.put_line(h 11 'is prime');
    else
       dbms_output.put_line(n 11' is not prime');
    end if:
 end;
```

(Autonomous)



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Expt-11
Date
Aim: Write a PL/SQL to generate prime numbers
upto m.
PLISAL :
  declare
    m number: 2&m;
    j number:
    n number:
    c number;
     i number:
 begin
     J:=2
     while (j<=m)
       loop
         h: =j;
         1: =1;
         C:=0;
         while (i<=n)
           loop
            if (mod (nii)=0) then
               C:=C+1;
            end if:
            1:= 1+1;
          end loop;
        if (c=a) then
          dbms-output.put-line (n);
       end if;
     end loop;
 ·end;
```



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Expt-12
Date
Aim: Write a PLISAL to generate mathematical product
table for a given number.
PLISAL:
   declare
       h number := &n;
       i humber; =1;
   begin
       for 1 in 1..10
          100P
         dbms-output.put_line(n11'*'llill'='lln*i);
         end loop;
  end;
```



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Expt-13
Date
Aim: Write a PLISAL to check whether the given numb-
er is palindrome or not.
PLISAL:
    declare
      h number: = & h;
       tem number := 0;
       tot number: = 0;
       k number: = 0;
   begin
       K:=n;
       while (n>0)
         loop
         rem: = mod (n,10);
         Sum:=Sum * 10+rem;
         h: = trunc (n/10);
         end loop;
      if (sum = k) then
         dbms_output.put_line (kll'is palindrome').
       else
         dbms_output.put_line (KII 'is not palindrome');
       end if;
   end;
```



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Expt-14
Date
Aim: Write a PLISAL to check whether the given string is
Palindrome or not.
PLISAL:
   declare
      9 varchar 2(20);
       r varchar 2(20);
       i number(4);
   begin
       9: = ' 69';
       for i in reverse inlength(g)
       loop
           r=r | substr (9,1,1);
       endloop:
       dbms_output.put_line ('reverse string 1s' 11r);
        if r=q then
           dbms_output.put_line ('string is palindrome');
        else
           dbms_output.put_line('string is not palindrome');
        end if:
  end;
```



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Expt-15
Date
Aim: Write a PLISAL to find the date of birth of a given
Programmer.
PLISQL:
   declare
      pn programmer.pname 1. type: = '&pn';
      db programmer, dobr. type;
   begin
      select dob into db from programmer where phame=pn;
      dbms_output.put_line('Date of birth is 'Ildb);
  exception
      when no_data-found then
          dbms_output.put_line ('No Data');
  end;
```



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Expt-16
Date
Aim: Write a PLISAL to display the names and date of
birth of programmers.
PLISAL:
   declare
       cursor s is select * from programmer;
       t sr. rowtype;
   begin
       opens;
       loop
           fetch s into t;
           exit when so, not found;
           dbms_output.put_line ('Pname' 11t, pname 11' '
                  Il 'Date of Birth' Il t.dob);
      end loop;
      Closes;
 end;
```



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Expt-17
Date
Aim: Write a PLISAL to find the titles of projects done
by a given programmer.
PLISQL:
  declare
     Pn software.pname " type: = 'Tulasi';
     cursors is select * from software where pname=pn;
     t $5% nowtype;
  begin
      opens;
      loop
         fetch s into t;
         exit when so, not found;
         dbms-output.put-line (t.title);
     end loop;
      closes;
end;
```



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Expt-18
Date
Aim: Write a PLISAL to find the name of programmer
for a given project.
PLISAL:
    declare
        t, software. Little 1. type: = '&t';
        Pn software.pname /. type;
    begin
        select prame into pr from software where title=t;
        dbms_output.put_line ('Name' 11pn);
    exception
        when no-data-found then
        dbms-output.put-line ('No Data');
    end;
```

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Expt-19
Date
Aim: Write a PLISAL to calculate area and perimeter of
radii present in the table radius and insert the radius,
area and perimeter into another table circle.
PLISAL:
   declare
      cursor s is select * from radius1;
      t sy. rowtype;
  begin
      open s;
      loop
          fetch s into t;
          exit when so not found;
          insert into circle1 values (t.radius, 3.14 *
              toradius * toradius, 2 * 3.14 * toradius);
     end loop;
  end;
```



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Expt-20
 Date
 Aim: Write a procedure to get the date of birth for a
 given programmer.
 PLISAL:
   create or replace procedure db (p in programmer, pname
a)
     " type) as
         d programmer. dob ...type;
    begin
        select dob into d from programmer where phame
         = p;
         dbms_output.put_line('Dob is' lld);
   exception
         when no data found then
         dbms_output.put_line('No data');
   end;
b)
   declare
        x programmer. phame / type: = &x;
   begin
        db(x);
   end;
```



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Expt-21
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Date

Aim: Write a function to return the date of birth for a given programmer.

(Autonomous)

PLISAL:

Create or replace function getab (p in programmer.pname "type) return date as d programmer, dob , type; begin select dob into d from programmer where pname=p; return(d);

b) declare

end;

end;

x programmer, prame 1. type:=&x; r programmer dob 1. type; begin r:=getdb(a); dbms_output.put_line ('Date of birth is 'llr);

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Expt-22.
Date
Aim: Write a procedure to display the names of progra.
mmer studied in a given institute.
PLISAL:
    create or replace procedure getname (spinstudies.splace
    1. type) as
         cursors is select * from studies where splace-sp;
         t sy wwtype;
   begin
        opens;
        loop
           fetch s into t;
            exit when so not found;
            dbms-output.put-line (t.pname);
            end loop;
        Closes;
   end;
b)
    declare
        x studies. splace y. type := & x;
    begin
         qetname(x);
    end;
```



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Expt-23
Date
Aim: Write a function to calculate the total developme-
nt cost for a given programmer using cursors.
PLISAL:
a) create or replace function gettot (pin software.prame
    % type) return number as
         r number;
         Cursors is select * from software where phanes
         t sy now type;
   begin
        8:=0;
        Opens:
        loop
             fetch s into t;
             exit when s.1. not found;
             r:=r+t.dcost;
        end loop;
        closes;
        return (r);
   end;
b)
   declare
        res number;
        P software.pname 1. type: = 'Anand';
   begin
        res: = qettot(p);
        dbms_output.put_line ('Total development cost is'
            lires);
   end;
```