Dt : 13/3/2024

wt is the diff

 (i)function

 (ii)member function

 (iii)method

(i)function:

 =>The part of program which is executed outof main()-program is known as 'function' in
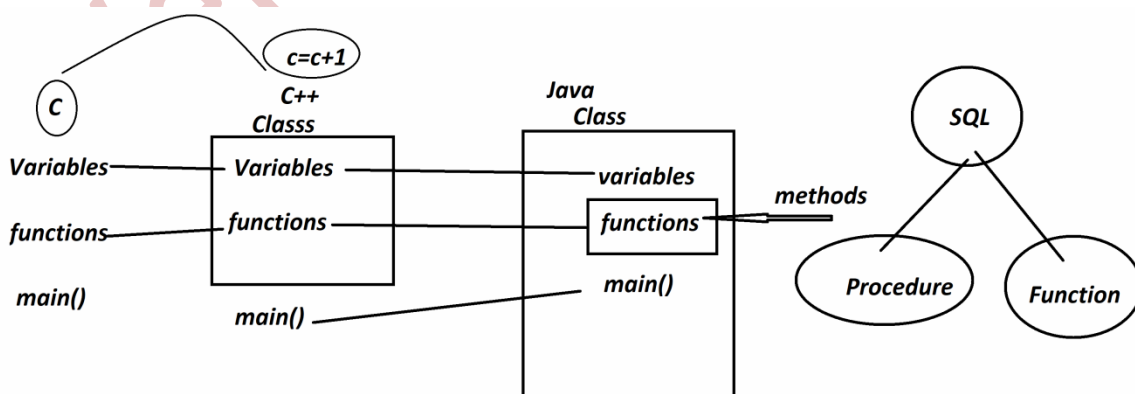
 C-Lang.

(ii)member function:

 =>The functions which are declared as members of class in C++ are known as member

 functions.

 =>These member functions can be declared inside the class or Outside the class with

 class reference.

(iii)method:

 =>The functions which are declared only inside the class in Java are known as Methods.

----

faq:

define 'Procedure'?

 =>Procedure is a set-of-queries executed on Database product at-a-time,and after execution

   Procedure willnot return any value.

    (Procedure means NonReturn_type)

Structure of Procedure:

create or replace procedure Procedure_name

(para_list) is

begin

  query-1

  query-2

 ...

end;

/

Types of Procedures:

  =>According to JDBC,Procedures are categorized into three types:

   (a)IN-Parameter Procedure

   (b)OUT-Parameter Procedure

   (c)IN-OUT-Parameter Procedure

(a)IN-Parameter Procedure:

=>The Procedures which take the data from Java-Program and sent to database product

   are known as IN-Parameter Procedures.

(b)OUT-Parameter Procedure:

   =>The Procedures which take the data from database product and sent to Java-Program are

   known as OUT-Parameter Procedures.

(c)IN-OUT-Parameter Procedure:

   =>The procedures which perform both operations are known as IN-OUT-Parameter Procedures.

faq:

define 'Function'?

  =>Function is a set-of-queries executed on Database product at-a-time,and after execution

   it will return the value.

  =>we use 'return' statement to return the value from Function.

Stucture of Function:

create or replace Function Function_name

(para_list) return data_type as var data_type;

begin

  queries

  return var;

end;

/

----

*imp

Construct Application to demonstrate Procedure:

step-1 : Create the following tables

    EmpData72(eid,ename,edesg);

    EmpAddress72(eid,hno,sname,city,state,pincode);

    EmpContact72(eid,mid,phno);

    EmpSalary72(eid,bsal,hra,da,totsal);

create table EmpData72(eid varchar2(10),ename varchar2(15),edesg varchar2(10),

primary key(eid));

create table EmpAddress72(eid varchar2(10),hno varchar2(15),sname varchar2(15),

city varchar2(15),state varchar2(15),pincode number(10),primary key(eid));

create table EmpContact72(eid varchar2(10),mid varchar2(25),phno number(15),

primary key(eid));

create table EmpSalary72(eid varchar2(10),bsal number(10),hra number(10,2),

da number(10,2),totsal number(10,2),primary key(eid));

step-2 : Construct Procedure to perform Insert operation to Employee tables

create or replace procedure InsertEmployee72

(id varchar2,en varchar2,ed varchar2,hn varchar2,sn varchar2,cty varchar2,st varchar2,

pcode number,md varchar2,pno number,bs number,h number,d number,ts number) is

begin

 insert into EmpData72 values(id,en,ed);

 insert into EmpAddress72 values(id,hn,sn,cty,st,pcode);

 insert into EmpContact72 values(id,md,pno);

 insert into EmpSalary72 values(id,bs,h,d,ts);

end;

/

step-3 : Construct JDBC Application to execute Procedure

Program : DBCon11.java

```java
package test;
import java.util.*;
import java.sql.*;
public class DBCon11 {
    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
        try(s;){
            Class.forName("oracle.jdbc.driver.OracleDriver");
          Connection con = DriverManager.getConnection

    ("jdbc:oracle:thin:@localhost:1521:xe","system","tiger");
```

```java
CallableStatement cs = con.prepareCall
("{call InsertEmployee72(?,?,?,?,?,?,?,?,?,?,?,?,?,?)}");
System.out.println("Enter the Emp-Id:");
String eId = s.nextLine();
System.out.println("Enter the Emp-Name:");
String eName = s.nextLine();
System.out.println("Enter the Emp-Desg:");
String eDesg = s.nextLine();
System.out.println("Enter the Emp-HNo:");
String hNo = s.nextLine();
System.out.println("Enter the Emp-SName:");
String sName = s.nextLine();
System.out.println("Enter the Emp-City:");
String city = s.nextLine();
System.out.println("Enter the Emp-State:");
String state = s.nextLine();
System.out.println("Enter the Emp-PinCode:");
int pinCode = Integer.parseInt(s.nextLine());
System.out.println("Enter the Emp-MailId:");
String mId = s.nextLine();
System.out.println("Enter the Emp-PhNo:");
Long phNo = s.nextLong();
System.out.println("Enter the Emp-bSal:");
int bSal = s.nextInt();
float hra = 0.93F*bSal;
float da = 0.61F*bSal;
float totSal = bSal+hra+da;
cs.setString(1, eId);
cs.setString(2, eName);
cs.setString(3, eDesg);
cs.setString(4, hNo);
cs.setString(5, sName);
cs.setString(6, city);
cs.setString(7, state);
cs.setInt(8, pinCode);
cs.setString(9, mId);
cs.setLong(10, phNo);
cs.setInt(11, bSal);
cs.setFloat(12, hra);
cs.setFloat(13, da);
cs.setFloat(14, totSal);
cs.execute();//Execute Procedure
System.out.println("Employee added Successsfully....");
con.close();
}catch(Exception e) {
    e.printStackTrace();
```

```
            }
        }
}
```

Enter the Emp-Id:

T121

Enter the Emp-Name:

Alex

Enter the Emp-Desg:

TE

Enter the Emp-HNo:

12-34/h

Enter the Emp-SName:

SRN

Enter the Emp-City:

Hyd

Enter the Emp-State:

TG

Enter the Emp-PinCode:

506112

Enter the Emp-MailId:

alex@gmail.com

Enter the Emp-PhNo:

9898981234

Enter the Emp-bSal:

45000

Employee added Successsfully....

==