JAVA OOPS ASSIGNMENT 2

1)

**class** sample

{

**private** **static** sample *object*;

**public** sample()

{

**super**();

}

**public** **static** sample getInstance()

{

**if**(*object* == **null**)

{

*object* = **new** sample();

}

**return** *object*;

}

**public** **static** **void** getConnection()

{

System.***out***.println("connected");

}

}

**public** **class** singletone

{

**public** **static** **void** main(String arg[])

{

sample object;

object = sample.*getInstance*();

sample.*getConnection*();

}

}

2)

**class** Employees

{

**int** salary = 0;

**public** Employees(**int** salary)

{

**this**.salary = salary;

}

**int** getsalary()

{

**return** salary;

}

}

**class** manager **extends** Employees

{

**public** manager(**int** sal)

{

**super**(sal);

}

**int** getsalary()

{

**return** (**super**.getsalary());

}

}

**class** labour **extends** Employees

{

**public** labour(**int** sal)

{

**super**(sal);

}

**int** getsalary()

{

**return** (**super**.getsalary());

}

}

**class** salary

{

**public** **static** **void** main(String arg[])

{

manager m1 = **new** manager(25000);

System.***out***.println("the salary of manager is:" +m1.getsalary());

labour l1 = **new** labour(15000);

System.***out***.println("the salary of labour is:" +l1.getsalary());

**int** Totsalary = m1.getsalary() + l1.getsalary();

System.***out***.println("the total saray is:" +Totsalary);

}

}

3)

**class** Account

{

**int** amount = 0;

**public** Account(**int** amount)

{

**super**();

**this**.amount = amount;

}

**int** getamount()

{

**return** amount;

}

}

**class** Saving **extends** Account

{

Saving()

{

**super**();

}

Saving(**int** FD)

{

**super**(FD);

}

**int** getamount()

{

**return** (**super**.getamount());

}

}

**class** current **extends** Account

{

current()

{

**super**();

}

current(**int** CC)

{

**super**(CC);

}

**int** getSalary()

{

**return** (**super**.getamount());

}

}

**class** Bank

{

**public** **static** **void** main(String arg[])

{

Saving s1 = **new** Saving(1000000);

System.***out***.println("total amount in saving acct is:" +s1.getamount());

current c1 = **new** current(5000000);

System.***out***.println("total amount in current acct is:" +c1.getamount());

**int** TotAmt = s1.getamount() + c1.getamount();

System.***out***.println("total amt in saving and current amount is:" +TotAmt);

}

}

4) Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, email

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5)

**abstract** **class** shape

{

**abstract** **void** draw();

**void** show()

{

System.***out***.println("this is an abstract class");

}

}

**class** line **extends** shape

{

**void** draw()

{

System.***out***.println("drawing line in parent class");

}

}

**class** rectangle **extends** shape

{

**void** draw()

{

System.***out***.println("drawing rectangle in parent class");

}

}

**class** rhombus **extends** shape

{

**void** draw()

{

System.***out***.println("drawing rhombus in parent class");

}

}

**public** **class** shapeMain

{

**public** **static** **void** main(String arg[])

{

shape s1 = **new** line();

s1.show();

s1.draw();

shape s2 = **new** rectangle();

s2.draw();

shape s3 = **new** rhombus();

s3.draw();

}

}

6)

**abstract** **class** persistence

{

**abstract** **void** persist();

**void** show()

{

System.***out***.println("this is an abstract class");

}

}

**class** filepersistence **extends** persistence

{

**void** persist()

{

System.***out***.println("saved on file");

}

}

**class** databasepersistence **extends** persistence

{

**void** persist()

{

System.***out***.println("saved on database");

}

}

**public** **class** AbstractClient

{

**public** **static** **void** main(String arg[])

{

filepersistence p1 = **new** filepersistence();

p1.persist();

databasepersistence db1 = **new** databasepersistence();

db1.persist();

}

}

7)