Java

https://forms.office.com/r/KWd2LnwM2N

1

False.

Members of a class are classified into three categirues: public, private, protected and default(without keyword)

2

True.

static methods belonging to the Class, could be used before instance object.

instance methods should be declared as non-static.

3

False.

If there is no Override method in sub Class, the sub Class inherits the method from super Class, and could use these method directly without super word.

4

True.

private means only belonging to their own Class

5

False.

Constructor has no type of return value because it has not be Instanced, then cannot be declared with void word.

6

Employee bobEmp, EmpRef;

PartTimeEmployee SarahEmp;

bobEmp = new Employee();

SarahEmp = new PartTimeEmployee();

EmpRef = bobEmp;

EmpRef.calculateSalary();        // super Class method

EmpRef = SarahEmp;

EmpRef.calculateSalary();        // sub Class method

11

public class Building {

      private int number\_flour;

      private double building\_price;

      public void displayEnergySaving() {

            System.out.printlen("This is the energy saving method!");

      }

      public void setNumber\_flour(int number) {

            number\_flour = number;

      }

      public void setbuilding\_price(double price) {

            building\_price = price;

      }

      public int getNumber\_flour() {

            return number\_flour;

      }

      public double setbuilding\_price() {

            return building\_price;

      }

}

12

public class HotelBuilding extends Building {

      private String hotel\_name;

      public void displayEnergySaving() {

            System.out.printlen("This is the energy saving method in sub class!");

      }

      public void setHotel\_name(String name) {

            hotel\_name = name;

      }

      public int getHotel\_name() {

            return hotel\_name;

      }

}

13

Building building = new Building;

HotelBuilding hotelBuilding = new HotelBuilding;

building.displayEnergySaving();            // display "This is the energy saving method in super class!"

hotelBuilding.displayEnergySaving();    // display "This is the energy saving method in sub class!"

14

True.

The Class HotelBuilding is the sub Class of super Class Building, the super Class is used as a formal parameter, and the sub Class is used as an actual parameter to achieve polymorphism

15

False.

The instance building5 instanced from super Class Building cannot be an actual parameter called by function as its sub Class  HotelBuilding as the formal parameter

