Java IQ

Difference between polymorphism and abstract?

* Inheritance and polymorphism both are concept of object-oriented programming(oops)

**Inheritance**

* A method through which one class inherits the properties of another class
* Types: single, hybrid, multiple, hierarchical;
* It allows the programmer to reuse the code, reduce the length and organize the code
* Inheritance is applied to class
* It is achieved by using extendes (in case of class) and implements (in case of inheritance) keyword

Example

class Animal {

public void animalSound () {

System.out.println ("The animal makes a sound");

}

}

class Pig extends Animal {

public void animalSound () {

System.out.println("The pig says: wee wee");

}

}

class Dog extends Animal {

public void animalSound () {

System.out.println("The dog says: bow wow");

}

}

**Polymorphism:**

* One object can behave differently at given instance of time.
* Types: 1. Compile time (Overload)

2.Run time (Overriding)

* It allows a program to redefine methods for derived classes
* It is applied to functions or methods
* It is achieved through method overloading and method overriding

Example:

class Animal {

public void animalSound () {

System.out.println("The animal makes a sound");

}

}

class Pig extends Animal {

public void animalSound () {

System.out.println("The pig says: wee wee");

}

}

class Dog extends Animal {

public void animalSound () {

System.out.println("The dog says: bow wow");

}

}

class Main {

public static void main (String [] args) {

Animal myAnimal = new Animal (); // Create a Animal object

Animal myPig = new Pig (); // Create a Pig object

Animal myDog = new Dog(); // Create a Dog object

myAnimal.animalSound();

myPig.animalSound();

myDog.animalSound();

}

}

Test cases for login page

Verify the login with valid credentials: Ensure that a user can log in with valid credentials

Verify the "forgot password" functionality: Test that the "forgot password" link works and that a user can create a new password using valid data

Verify the messages for invalid login: Ensure that the correct validation messages appear when a user enters invalid login credentials

Session timeout: Test that the system terminates a user's session after a period of inactivity to prevent unauthorized access

Check the Show Password feature: Verify that the Show Password feature works

Check the Remember Me checkbox: Verify that the Remember Me checkbox works

Check the autofill: Verify that the autofill feature works

Check the Log Out button: Verify that the Log Out button works

Restore the password with a registered email: Verify that a user can restore their password using a registered email

Check the Forgot Password email: Verify that the Forgot Password email works