```
class Animal {
    constructor(name, age) {
        this.name = name;
       this.age = age;
    speak() {
class Dog extends Animal {
    speak() {
class Cat extends Animal {
   speak() {
       return "Meow";
const dog = new Dog("Buddy", 5);
const cat = new Cat("Riskers", 3);
console.log(`${dog.name} says: ${dog.speak()}`);
console.log(`${cat.name} says: ${cat.speak()}`);
class BankAccount {
    #balance
```

```
constructor(accountNumber, initialBalance = 0) {
       this.accountNumber = accountNumber;
       this.#balance = initialBalance;
   deposit(amount) {
       if (amount > 0) {
           this. #balance += amount;
       } else {
           console.log("Deposit amount must be
positive.");
   withdraw(amount) {
       if (amount > 0) {
           if (this.#balance >= amount) {
               this. #balance -= amount;
           } else {
               console.log("Insufficient funds.");
       } else {
          console.log("Withdrawal amount must be
ositive.");
   getBalance() {
      return this.#balance;
```

```
console.log("Initial Balance:", account.getBalance());
account.deposit(500);
console.log("After Deposit:", account.getBalance());
account.withdraw(200);
console.log("After Withdrawal:", account.getBalance());
account.withdraw(1500);
console.log("You Trying to Overdraw:",
account.getBalance());
    calculateArea() {
        return 0;
    getName() {
        constructor(width, height) {
            super();
            this.width = width;
            this.height = height;
        calculateArea() {
            return this.width * this.height;
```

```
getName() {
   static PI = 3.14; //class object variable
    constructor(radius) {
       super();
       this.radius = radius;
   calculateArea() {
        return Circle.PI * this.radius * this.radius;
    getName() {
       return "Circle";
const shapes = [
    new Rectangle(5, 10),
   new Circle(3),
   new Rectangle(7, 4),
   new Circle(5)
];
for (i in shapes) {
   const shape =shapes[i]
   console.log(`Area of ${shape.getName()}:
 { shape.calculateArea().toFixed(2) } `);
```