**Question 1**

class A {void m1(A a) {System.out.print("A");}}

class B extends A {void m1(B b) {System.out.print("B");}}

class C extends B {void m1(C c) {System.out.print("C");}}

class D extends C {

void m1(D d) {System.out.print("D");}

public static void main(String[] args) {

A a1 = new A(); B b1 = new B(); C c1 = new C(); D d1 = new D();

d1.m1(a1); d1.m1(b1); d1.m1(c1);

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: AAA |
| b. | Prints: ABC |
| c. | Prints: DDD |
| d. | Prints: ABCD |
| e. | Compile-time error |
| f. | Run-time error |
| g. | None of the above |

**Question 2**

class A {} class B extends A {} class C extends B {}

class D {

void m1(A a) {System.out.print("A");}

void m1(B b) {System.out.print("B");}

void m1(C c) {System.out.print("C");}

public static void main(String[] args) {

A c1 = new C(); B c2 = new C(); C c3 = new C(); D d1 = new D();

d1.m1(c1); d1.m1(c2); d1.m1(c3);

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: AAA |
| b. | Prints: ABC |
| c. | Prints: CCC |
| d. | Compile-time error |
| e. | Run-time error |
| f. | None of the above |

**Question 3**

class A {void m1(A a) {System.out.print("A");}}

class B extends A {void m1(B b) {System.out.print("B");}}

class C extends B {void m1(C c) {System.out.print("C");}}

class D {

public static void main(String[] args) {

A c1 = new C(); B c2 = new C(); C c3 = new C(); C c4 = new C();

c4.m1(c1); c4.m1(c2); c4.m1(c3);

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: AAA |
| b. | Prints: ABC |
| c. | Prints: CCC |
| d. | Compile-time error |
| e. | Run-time error |
| f. | None of the above |

**Question 4**

class A {void m1(A a) {System.out.print("A");}}

class B extends A {void m1(B b) {System.out.print("B");}}

class C extends B {void m1(C c) {System.out.print("C");}}

class D {

public static void main(String[] args) {

A c1 = new C(); C c2 = new C(); c1.m1(c2);

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: A |
| b. | Prints: B |
| c. | Prints: C |
| d. | Compile-time error |
| e. | Run-time error |
| f. | None of the above |

**Question 5**

class A {void m1(A a) {System.out.print("A");}}

class B extends A {void m1(B b) {System.out.print("B");}}

class C extends B {void m1(C c) {System.out.print("C");}}

class D {

public static void main(String[] args) {

A a1 = new A(); A b1 = new B(); A c1 = new C(); C c4 = new C();

a1.m1(c4); b1.m1(c4); c1.m1(c4);

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: AAA |
| b. | Prints: ABC |
| c. | Prints: CCC |
| d. | Compile-time error |
| e. | Run-time error |
| f. | None of the above |

**Question 6**

class A {void m1(A a) {System.out.print("A");}}

class B extends A {void m1(B b) {System.out.print("B");}}

class C extends B {void m1(C c) {System.out.print("C");}}

class D {

public static void main(String[] args) {

A a1 = new A(); B b1 = new B(); C c1 = new C(); A c2 = new C();

c2.m1(a1); c2.m1(b1); c2.m1(c1);

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: AAA |
| b. | Prints: ABC |
| c. | Prints: CCC |
| d. | Compile-time error |
| e. | Run-time error |
| f. | None of the above |

**Question 7**

class A {void m1(A a) {System.out.print("A");}}

class B extends A {void m1(B b) {System.out.print("B");}}

class C extends B {void m1(C c) {System.out.print("C");}}

class D {

public static void main(String[] args) {

A a1 = new A(); B b1 = new A(); C c1 = new A(); C c2 = new C();

c2.m1(a1); c2.m1(b1); c2.m1(c1);

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: AAA |
| b. | Prints: ABC |
| c. | Prints: CCC |
| d. | Compile-time error |
| e. | Run-time error |
| f. | None of the above |

**Question 8**

class A {void m1(A a) {System.out.print("A");}}

class B extends A {void m1(B b) {System.out.print("B");}}

class C extends B {void m1(C c) {System.out.print("C");}}

class D {

public static void main(String[] args) {

A a1 = new A(); B b1 = new B(); C c1 = new C(); C c2 = new A();

c2.m1(a1); c2.m1(b1); c2.m1(c1);

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: AAA |
| b. | Prints: ABC |
| c. | Prints: CCC |
| d. | Compile-time error |
| e. | Run-time error |
| f. | None of the above |