**1) What will be the output of the following program?**

|  |  |
| --- | --- |
| 5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39 | class A  {    }    class B extends A  {    }    class C extends B  {    }    public class MainClass  {      static void overloadedMethod(A a)      {          System.out.println("ONE");      }        static void overloadedMethod(B b)      {          System.out.println("TWO");      }        static void overloadedMethod(Object obj)      {          System.out.println("THREE");      }        public static void main(String[] args)      {          C c = new C();            overloadedMethod(c);      }  } |

Answer: TWO

Overloaded method C extends B

**2) In a class, one method has two overloaded forms. One form is defined as static and another form is defined as non-static. Is that method properly overloaded?**

**Static Method Can not be overloaded**

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse2)

**3) In the below class, is ‘method’ overloaded or duplicated?**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12 | public class MainClass  {      void method(int ... a)      {          System.out.println(1);      }        void method(int[] a)      {          System.out.println(2);      }  } |

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse3)

**4) Method signature consists of**

a) Method Name, Return Type and Number Of Arguments  
b) Access Modifier, Method Name and Types Of Arguments  
c) Method Name, Number Of Arguments, Types Of Arguments and Order Of Arguments  
d) Return Type, Access Modifier and Order Of Arguments

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse4)

**5) In the below Class X, is ‘method’ properly overloaded?**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22 | class X  {      int method(int i, int d)      {          return i+d;      }        static int method(int i, double d)      {          return (int)(i+d);      }        double method(double i, int d)      {          return i+d;      }        static double method(double i, double d)      {          return i+d;      }  } |

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse5)

**6) What will be the output of the following program?**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29 | class X  {      void method(int a)      {          System.out.println("ONE");      }        void method(double d)      {          System.out.println("TWO");      }  }    class Y extends X  {      @Override      void method(double d)      {          System.out.println("THREE");      }  }    public class MainClass  {      public static void main(String[] args)      {          new Y().method(100);      }  } |

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse6)

**7) What will be the outcome of the below program?**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24 | public class MainClass  {      double overloadedMethod(double d)      {          return d \*= d;      }        int overloadedMethod(int i)      {          return overloadedMethod(i \*= i);      }        float overloadedMethod(float f)      {          return overloadedMethod(f \*= f);      }        public static void main(String[] args)      {          MainClass main = new MainClass();            System.out.println(main.overloadedMethod(100));      }  } |

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse7)

**8) Method Overriding shows static polymorphism. True or false?**

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse8)

**9) In a class, One method has 4 overloaded forms. All have different access modifiers (private, default, protected and public). Is that method properly overloaded?**

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse9)

**Also Read :** [Increment And Decrement Operators Quiz](https://javaconceptoftheday.com/quiz-on-increment-and-decrement-operators/)

**10) What will be the outcome of the following program?**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40  41  42  43 | class X  {      void calculate(int a, int b)      {          System.out.println("Class X");      }  }    class Y extends X  {      @Override      void calculate(int a, int b)      {          System.out.println("Class Y");      }  }    class Z extends Y  {      @Override      void calculate(int a, int b)      {          System.out.println("Class Z");      }  }    public class MainClass  {      public static void main(String[] args)      {          X x = new Y();            x.calculate(10, 20);            Y y = (Y) x;            y.calculate(50, 100);            Z z = (Z) y;            z.calculate(100, 200);      }  } |

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse10)

**11) Will you find out the error in the below code?**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16 | class X  {      static void methodOfX()      {          System.out.println("Class X");      }  }    class Y extends X  {      @Override      static void methodOfX()      {          System.out.println("Class X");      }  } |

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse11)

**12) What possible types a ‘superClassMethod()’ of below ‘SuperClass’ can return when it is overridden in the sub class?**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7 | class SuperClass  {      Object superClassMethod()      {          return new Object();      }  } |

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse12)

**13) Can we override protected method as private?**

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse13)

**14) What will be the output of this program?**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25 | class SuperClass  {      void superClassMethod(Number n)      {          System.out.println("From Super Class");      }  }    class SubClass extends SuperClass  {      void superClassMethod(Double d)      {          System.out.println("From Sub Class");      }  }    public class MainClass  {      public static void main(String[] args)      {          SubClass sub = new SubClass();            sub.superClassMethod(123321);      }  } |

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse14)

**15) What actually polymorphism means in Java?**

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse15)

**16) Does Java support operator overloading?**

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse16)

**17) What will be the output of the below program?**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34 | class A  {      public A(int i)      {          System.out.println(1);      }        public A()      {          this(10);            System.out.println(2);      }        void A()      {          A(10);            System.out.println(3);      }        void A(int i)      {          System.out.println(4);      }  }    public class MainClass  {      public static void main(String[] args)      {          new A().A();      }  } |

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse17)

**18) Why method overriding is called late binding or dynamic binding?**

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse18)

**19) What will be the output of the following program?**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27 | public class MainClass  {      static void method(Integer i)      {          System.out.println(1);      }        static void method(Double d)      {          System.out.println(2);      }        static void method(Number n)      {          System.out.println(4);      }        static void method(Object o)      {          System.out.println(5);      }        public static void main(String[] args)      {          method((short)12);      }  } |

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse19)

**20) How do compiler differentiate overloaded methods from duplicate methods?**

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse20)

**Also Read :** [Java Strings Quiz](https://javaconceptoftheday.com/java-strings-quiz-questions-and-answers/)

**21) final methods can be overridden but can’t be overloaded? True or False?**

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse21)

**22) Does the below program shows polymorphism or not?**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26 | class A  {    }    class B extends A  {    }    class C extends B  {    }    public class MainClass  {      public static void main(String[] args)      {          A a = new A();            a = new B();            a = new C();      }  } |

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse22)

**23) What will be the output of the following program?**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33 | class X  {      int method(int i)      {          return i \*= i;      }  }    class Y extends X  {      double method(double d)      {          return d /= d;      }  }    class Z extends Y  {      float method(float f)      {          return f += f;      }  }    public class MainClass  {      public static void main(String[] args)      {          Z z = new Z();            System.out.println(z.method(21.12));      }  } |

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse23)

**24) What will be the output of the following program?**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27 | class ClassOne  {      void method(String s1)      {          method(s1, s1+s1);      }        void method(String s1, String s2)      {          method(s1, s2, s1+s2);      }        void method(String s1, String s2, String s3)      {          System.out.println(s1+s2+s3);      }  }    public class MainClass  {      public static void main(String[] args)      {          ClassOne one = new ClassOne();            one.method("JAVA");      }  } |

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse24)

**25) Constructor overloading is also one form of the polymorphism. Yes or No?**

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse25)

**26) Is the following program written correctly? If yes, what will be the output?**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35 | class A  {      public A(int i)      {          System.out.println(myMethod(i));      }        int myMethod(int i)      {          return ++i + --i;      }  }    class B extends A  {      public B(int i, int j)      {          super(i\*j);            System.out.println(myMethod(i, j));      }        int myMethod(int i, int j)      {          return myMethod(i\*j);      }  }    public class MainClass  {      public static void main(String[] args)      {          B b = new B(12, 21);      }  } |

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse26)

**27) What will be the output of the below program?**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40  41 | class A  {      void myMethod(Object o, Double D)      {          System.out.println(1);      }        void myMethod(Integer I, Number N)      {          System.out.println(2);      }  }    class B extends A  {      void myMethod(Float F, Double D)      {          System.out.println(3);      }        void myMethod(Double D, Integer I)      {          System.out.println(4);      }  }    public class MainClass  {      public static void main(String[] args)      {          B b = new B();            b.myMethod(11.11, 0000);            b.myMethod(8778, 3223);            b.myMethod(2.3\*1.2, 4.1\*1.4);            b.myMethod((float)23.56, 21.45);      }  } |

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse27)

**28) In the below example, Class B extends Class A. Which method of Class A is not properly overridden in class B?**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27 | class A  {      void methodOne(Double D)      {        }        int methodTwo(Integer I)      {          return I;      }  }    class B extends A  {      @Override      void methodOne(double d)      {        }        @Override      int methodTwo(Integer I)      {          return (int)1.1;      }  } |

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse28)

**29) Can we access super class version of overridden method in the sub class. If yes, how?**

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse29)

**Also Read :** [Java Inheritance Quiz](https://javaconceptoftheday.com/java-inheritance-practice-coding-questions/)

**30) What is the difference between static binding and dynamic binding?**

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse30)

**31) What will be the output of the following program?**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25 | class A  {      static void methodOne()      {          System.out.println("AAA");      }  }    class B extends A  {      static void methodOne()      {          System.out.println("BBB");      }  }    public class MainClass  {      public static void main(String[] args)      {          A a = new B();            a.methodOne();      }  } |

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse31)

**32) In the below class A, ‘myMethod()’ has three different forms. All are throwing different exceptions, but have same signature. Is it OK?**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17 | class A  {      void myMethod() throws IOException      {          System.out.println("ONE");      }        void myMethod() throws NumberFormatException      {          System.out.println("TWO");      }        void myMethod() throws ArrayIndexOutOfBoundsException      {          System.out.println("THREE");      }  } |

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse32)

**33) Can you identify the error in below code snippet?**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16 | class A  {      void myMethod()      {          System.out.println("Super Class");      }  }    class B extends A  {      @Override      void myMethod() throws SQLException      {          System.out.println("Sub Class");      }  } |

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse33)

**34) Can we remove throws clause of a method while overriding it?**

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse34)

**35) What will be the outcome of the following program?**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23 | class ABC  {      void methodABC()      {          new XYZ().methodXYZ();      }  }    class XYZ extends ABC  {      void methodXYZ()      {          methodABC();      }  }    public class MainClass  {      public static void main(String[] args)      {          new ABC().methodABC();      }  } |

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse35)

**36) What will be the output of the below program?**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39 | class ABC  {      void methodABC()      {          System.out.println(111);      }        void methodABC(int i)      {          System.out.println(222);      }  }    class XYZ extends ABC  {      @Override      void methodABC(int i)      {          System.out.println(333);      }        @Override      void methodABC()      {          System.out.println(444);      }  }    public class MainClass  {      public static void main(String[] args)      {          ABC abc = new XYZ();            abc.methodABC(10);            abc.methodABC();      }  } |

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse36)

**37) What are the possible access modifiers a protected method can have if it is overridden in the sub class?**

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse37)

**38) Can you list out the differences between method overloading and method overriding?**

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse38)

**39) In the below example, is “methodOfX()” correctly overridden in the sub classes of Class X?**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25 | class X  {      void methodOfX()      {          System.out.println("Class X");      }  }    class Y extends X  {      @Override      protected void methodOfX()      {          System.out.println("Class Y");      }  }    class Z extends Y  {      @Override      public void methodOfX()      {          System.out.println("Class Z");      }  } |

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse39)

**40) What will be the output of the following program?**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33 | class ABC  {      String myMethod(String s)      {          return s+s;      }  }    class PQR extends ABC  {      String myMethod(String s, double d)      {          return myMethod(s+d);      }  }    class XYZ extends PQR  {      String myMethod(String s, double d, int i)      {          return myMethod(s, d+i);      }  }    public class MainClass  {      public static void main(String[] args)      {          XYZ xyz = new XYZ();            System.out.println(xyz.myMethod("JAVA", 23.23, 111));      }  } |

[**View Answer**](https://javaconceptoftheday.com/java-practice-questions-on-method-overloading-and-overriding/#collapse40)