EXAMPLE QUESTIONS

Question 1. What will be the output of the program?

```
public class Child extends Parent {
public class Parent {
   public void method1(){
                                             public Child(){
      System.out.print("Parent 1 ");
                                                 System.out.println("Child ");
  public void method2(){
                                             public void method1(){
      System.out.print("Parent 2 ");
                                                System.out.print("Child 1 ");
}
                                             public void method2(String p){
                                                 System.out.print("Child p ");
                                             }
                                          }
                                          public class PolyTest {
public class GrandChild extends Child {
                                              public static void main(String[]
                                          args) {
  public void method2(){
                                              Parent[] children = new Parent[3];
    System.out.print("Grandchild 2 ");
                                              children[0] = new Child();
                                              children[1] = new Parent();
}
                                              children[2] = new GrandChild();
                                              for(Parent prnt : children){
                                                   prnt.method1();
                                                  prnt.method2();
                                                  System.out.println();
                                              }
                                           }
                                          }
```

Answer:

Child Child 1 Parent 2 Parent 1 Parent 2 Child 1 Grandchild 2

Question 2. What will be the output of the program?

```
public class Child extends Parent {
public class Parent {
      static int x=1;
                                             public Child(){ x++; }
      public Parent() { x++; }
                                          }
      public void method(){
             System.out.print(x);
}
                                          public class PolyTest {
public class GrandChild extends Child {
                                                public static void main(String[]
                                          args) {
      public GrandChild() { x++; }
                                                   Parent[] children = new
      public void method(){
                                          Parent[3];
             System.out.print(x);
                                                  children[0] = new Child();
                                                  children[1] = new Parent();
}
                                                  children[2] = new GrandChild();
                                                  for(Parent prnt : children){
                                                 prnt.method();
                                                 System.out.println();
                                              }
                                          }
```

Answer:

7

7

Question 3. What will be the output of the program?

```
public class Parent {
                                          public class Child extends Parent {
                                                public Child(String str){
      public Parent() {
                                                       super(str);
         System.out.println("Parent");
                                                 }
      public Parent(String str){
         System.out.print(str);
}
public class GrandChild extends Child {
                                          public class PolyTest {
   public GrandChild() {
                                              public static void main(String[]
                                          args) {
      super("Grand");
      System.out.println("GrandChild");
                                                 Parent prnt = new Parent();
                                                Parent child = new Child("Grand");
}
                                                GrandChild gchild= new
                                          GrandChild();
                                                }
                                          }
```

Answer:

Parent GrandGrandGrandChild

Soru 4. According to the Java code given below,

```
class A {
                                         class C extends B {
      public void method1() {
                                               public void method2() {
            System.out.print("A1 ");
                                                     super.method1();
                                                     System.out.print("C2 ");
class B extends A {
      public void method2() {
                                         class D extends C {
            System.out.print("B2 ");
                                               public void method1() {
                                                     System.out.print("D1 ");
                                               public void method2() {
                                                     System.out.print("D2 ");
                                                     super.method2();
                                               }
```

Considering the variable definitions given below, write down the outputs of each of the Java method calls to the nearby blank areas.

```
A \times = new D();
C y = new D();
A z = new B();
Object o = new C();
x.method1();
                           D1
y.method1();
                           D1
y.method2();
                           D2 A1 C2
z.method1();
z.method2();
                           methods() is undefined
                           D2 A1 C2
((B) x).method2();
((B)((C) o)).method1();
                           A1
((C) z).method1();
                           ClassCastException
```