1 **import** java.io.IOException;

2

3 **public** **class** DefinedExceptionClass

4 {

5 **public** **static** **void** main(String[] args)

6 {

7 **for**(**int** i=1; i<=3; i++)

8 {

9 **try**

10 {

11 test(i);

12 }

13 **catch**(OffBoardException e) **//a child of RuntimeException**

14 {

15 System.out.print("Caught by the OffBoardException " +

16 "catch block: ");

17 System.out.println(e.getMessage());

18 }

19 **catch**(RuntimeException e) **//a child of Exception**

20 {

21 System.out.print("Caught by the RuntimeException " +

22 “catch block: ");

23 System.out.println(e.getMessage());

24 }

25 **catch**(Exception e) **//a child of throwable**

26 {

27 System.out.print("Caught by the Exception catch block: ");

28 System.out.println(e.getMessage());

29 }

30 }

31 }

32 **public** **static** **void** test(**int** path) throws Exception

33 {

34 **if**(path == 1) **//throw an Exception object**

35 {

36 **throw** **new** Exception("a message attached to an Exception object");

37 }

38 **if**(path == 2) **//throw a RuntimeException object**

39 {

40 **throw** **new** RuntimeException("a message attached to a " +

41 "RuntimeException object");

42 }

43 **if**(path == 3) **//throw an OffBoardException object**

44 {

45 **throw** **new** OffBoardException("a message attached to an " +

46 "OffBoardException object");

47 }

48 }

49 }

**Figure 10.18 The application DefinedExceptionClass.**