

Assessment 1

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1. Predict the output of following Java program

```
class Main {  
    public static void main(String args[]) {  
        try {  
            throw 10;  
        }  
        catch(int e) {  
            System.out.println("Got the Exception " + e);  
        }  
    }  
}
```

(A) Got the Exception 10

(B) Got the Exception 0

(C) **Compiler Error**

2. class Test extends Exception { }

```
class Main {  
    public static void main(String args[]) {  
        try {  
            throw new Test();  
        }  
        catch(Test t) {  
            System.out.println("Got the Test Exception");  
        }  
        finally {  
            System.out.println("Inside finally block ");  
        }  
    }  
}
```

- A. Got the Test Exception Inside finally block
- B. Got the Test Exception
- C. Inside finally block
- D. Compiler Error

3. Output of following Java program?

```
class Main {  
    public static void main(String args[]) {  
        int x = 0;  
        int y = 10;  
        int z = y/x;  
    }  
}
```

- A. Compiler Error
- B. Compiles and runs fine
- C. Compiles fine but throws ArithmeticException exception
- D. None

4. class Base extends Exception {}
class Derived extends Base {}

```
public class Main {  
    public static void main(String args[]) {  
        // some other stuff  
        try {  
            // Some monitored code  
            throw new Derived();  
        }  
        catch(Base b) {  
            System.out.println("Caught base class exception");  
        }  
        catch(Derived d) {  
            System.out.println("Caught derived class exception");  
        }  
    }  
}
```

}

A.Caught base class exception

B.Caught derived class exception

C.Compiler Error because derived is not throwable

D.Compiler Error because base class exception is caught before derived class

5.class Test

```
{
    public static void main (String[] args)
    {
        try
        {
            int a = 0;
            System.out.println ("a = " + a);
            int b = 20 / a;
            System.out.println ("b = " + b);
        }

        catch(ArithmeticException e)
        {
            System.out.println ("Divide by zero error");
        }

        finally
        {
            System.out.println ("inside the finally block");
        }
    }
}
```

A.Compile error

B.Divide by zero error

C.a = 0 Divide by zero error inside the finally block

D.a = 0

E.inside the finally block

6.Predict the output of the following program.

```
class Test
{
    String str = "a";

    void A()
    {
        try
        {
            str += "b";
            B();
        }
        catch (Exception e)
        {
            str += "c";
        }
    }

    void B() throws Exception
    {
        try
        {
            str += "d";
            C();
        }
        catch(Exception e)
        {
            throw new Exception();
        }
        finally
        {
            str += "e";
        }
    }
}
```

```

        str += "f";

    }

    void C() throws Exception
    {
        throw new Exception();
    }

    void display()
    {
        System.out.println(str);
    }

    public static void main(String[] args)
    {
        Test object = new Test();
        object.A();
        object.display();
    }
}

```

- A.abdef
- B.abdec
- C.abdefc

7. Predict the output of the following program.

```

class Test
{
    int count = 0;

    void A() throws Exception
    {
        try
        {
            count++;

```

```

    try
    {
        count++;

        try
        {
            count++;
            throw new Exception();

        }

        catch(Exception ex)
        {
            count++;
            throw new Exception();
        }
    }

    catch(Exception ex)
    {
        count++;
    }
}

catch(Exception ex)
{
    count++;
}

}

void display()
{
    System.out.println(count);
}

public static void main(String[] args) throws Exception

```

```
{  
    Test obj = new Test();  
    obj.A();  
    obj.display();  
}  
}
```

A.4

B.5

C.6

D.Compilation error

8.Which of these is a super class of all errors and exceptions in the Java language?

A.RunTimeExceptions

B.Throwable

C.Catchable

D.None of the above

9.The built-in base class in Java, which is used to handle all exceptions is

A.Raise

B.Exception

C.Error

D.Throwable