```
public class Exceptions {
   public String checkException(double num1, double num2, char op) {
       String result = "No Exception found";
       try {
           throw new MutliplyByZeroException("Multiplication with zero results in zero");
           if(op == '/' && (num2 == 0)) {
              throw new DivideByZeroException("Division by zero results in infinity");
           if(op != '+' && op != '-' && op != '*' && op != '/') {
              throw new ArithmeticException(op + " is not a valid operator");
       } catch(MutliplyByZeroException mulByZeroEx) {
           result = mulByZeroEx.getMessage();
       } catch(DivideByZeroException divByZeroEx) {
           result = divByZeroEx.getMessage();
       } catch(Exception ex) {
           result = ex.getMessage();
       return result;
   þ
```

```
public class DivideByZeroException extends Exception {

public DivideByZeroException(String s) {
    super(s);
}

}

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```

```
public class MutliplyByZeroException extends Exception {

public MutliplyByZeroException(String s) {
    super(s);
}
```

```
} catch(DivideByZeroException divByZeroEx) {
                  result = divByZeroEx.getMessage();
             } catch(Exception ex) {
                 result = ex.getMessage();
             return result;
         public double calculate(double num1, double num2, char op) €
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             double result = 0.0;
             if(checkException(num1, num2, op).equalsIgnoreCase("No Exception found")) {
                 switch(op) {
                          result = num1 + num2;
                         break;
                          result = num1-num2;
                         break;
                          result = num1*num2;
                          result = num1/num2;
                         break;
             return result;
```