

# Exception Handling in Python – Practice Questions (CBSE Class XII)

## Section A: Very Short Answer (1 Mark)

1. What is an exception in Python?
2. Name any two built-in exceptions in Python.
3. Which block always executes in exception handling?
4. What is the use of the raise keyword?

## Section B: Output Based Questions

```
1.
try:
    a = 5
    b = 0
    print(a/b)
except ZeroDivisionError:
    print("Error")
else:
    print("Done")

2.
try:
    x = int("Hello")
    print(x)
except ValueError:
    print("Invalid Value")
```

## Section C: Find the Error

```
1.
try:
    print(10/2)
finally:
    print("End")

2.
try:
    print(a)
except NameError:
    print("Error")
```

## Section D: Case Study Based Question

A school software accepts student marks. Sometimes users enter text instead of numbers or zero as total marks. This causes program failure.

```
try:
```

```

marks = int(input("Enter marks: "))
total = int(input("Enter total marks: "))
percentage = (marks/total)*100
print(percentage)
except:
    print("Invalid input")

```

a) Name two exceptions that may occur in the above code.  
b) Rewrite the code using specific exception handling.

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## Section A: Very Short Answer (1 Mark)

1. **What is an exception in Python?** An exception is a runtime error that occurs during the execution of a program, which disrupts the normal flow of the program's instructions.
2. **Name any two built-in exceptions in Python.** Common examples include `ZeroDivisionError` and `ValueError`.
3. **Which block always executes in exception handling?** The `finally` block always executes, whether an exception occurred or not.
4. **What is the use of the `raise` keyword?** It is used to manually trigger or "throw" an exception when a specific condition is met in your code.

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## Section B: Output Based Questions

1. **Output: Error Explanation:** *Dividing 5 by 0 triggers a `ZeroDivisionError`. The `else` block is skipped because an error occurred.*
2. **Output: Invalid Value Explanation:** *The string "Hello" cannot be converted to an integer, triggering a `ValueError`.*

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## Section C: Find the Error

1. **Error:** Technically, this code is **syntactically correct**. In Python, a `try` block can be followed by a `finally` block without an `except` block. However, if the goal was to *catch* an error, an `except` block is missing.
2. **Error:** There is a missing **colon (:)** after the exception name. *Corrected line:*  
`except NameError:`

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## Section D: Case Study Based Question

**a) Name two exceptions that may occur in the above code.**

- `ValueError` (if the user types letters instead of numbers).
- `ZeroDivisionError` (if the user enters 0 for total marks).

**b) Rewrite the code using specific exception handling:**

```

try:
    marks = int(input("Enter marks: "))
    total = int(input("Enter total marks: "))
    percentage = (marks / total) * 100
    print(percentage)
except ValueError:

```

```
    print("Invalid input: Please enter numbers only.")
except ZeroDivisionError:
    print("Invalid input: Total marks cannot be zero.")
```