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Subject - Python (CPP)

Type No	1
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Section-A (any 5)

- Ques-1 a) Zero division error is not an exception in python. (yes/no)
b) X mode is used to create new file. (yes/no)
c) Object is an instance of class.
- Ques-2 What is except statement?
- Ques-3 What is file pointer?
- Ques-4 Write about python classes?
- Ques-5 What is quantifiers?
- Ques-6 Write about Regular Expressions.

Section-B

- Ques-7 What is python inheritance? Explain with example.

OR

- Ques-8 What is file? Explain the method to open in various modes, close the file in Python.

Answers -

Section-A

- Ans-1
- No.
 - Yes.
 - Object is an instance of class.

Ans-2

Except Statement -

It comes after the try block.
When the code inside try block fails to execute then except statement following it is executed to handle the error.

Syntax:

```
try:
    —————— // code
    —————— // code
except:
    —————— // code
    —————— // code
```

⇒ Except block of code → handles the condition as elegantly as possible.

Ans-3

file Pointer -

File pointer is an object which points or resembles a specific file in python.

- file pointer name can be any variable.
- We can perform different actions using file pointer.

⇒ open() function is used for creating a file pointer.

Syntax -

```
file object / pointer = open( filename, access
                           type, buffer)
```

Ans-4Classes :-

Classes are a part of Object Oriented Programming concept. Classes in python are so useful as they reduce the lines of code and makes the code more efficient.

- Classes are a great way to simplify things in python.

Syntax -

```
class className :
    var1 = 2
    - get():
        —— /code
        —— //code
```

Ans-6Regular Expressions -

Regular Expression is a formula by which you can search your desired result in a string.

You can use different combination of regular expression to find different results.

- ⇒ You need to import a pre-built library, in order to use regular expressions in your python program.

Syntax :

```
import re
```

Section - B

Ans-7

Inheritance in Python:-

Inheritance is the process of inheriting properties and methods of parent class/base class by a child/derived class.

Syntax for Inheritance:

```
class className (base class):
    --- //code
    --- //code
```

Example -

```
class Animal :
    def eat():
        print("eats")
class Human (Animal):
```

```
h = Human()
h.eat()
```

Output :

eats

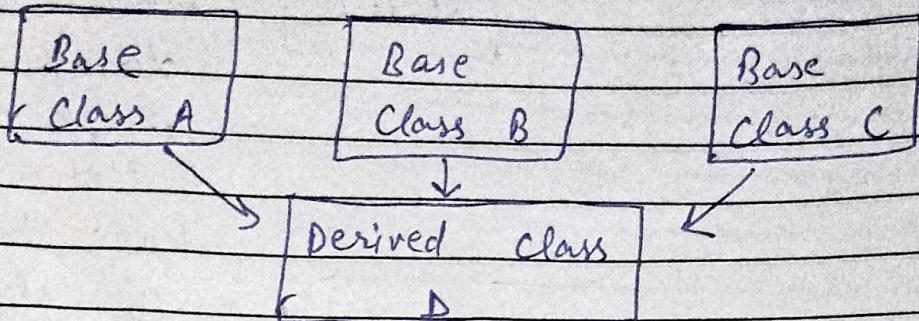
* Because child class inherits all the methods and properties of parent class.
In this case, class Human inherits eat() method of Animal class.

Ans-7

Inheritance

Python Multiple Inheritance:

In this type of inheritance, the derived class inherits ~~an~~ two or more base class.



Syntax :

base class 1 :

// class code

base class 2 :

// class code

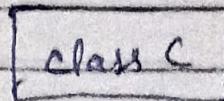
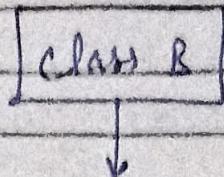
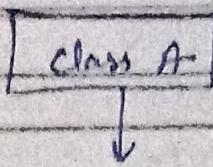
derived class (base class 1, base class 2) :

// class code

* Here derived class inherits base class 1 and base class 2.

⇒ Python Multi-level Inheritance :

This type of inheritance is achieved when class A is inherited by class B and class B is inherited by class C and this chain can go on and on.



// inherits properties of class A
 // inherits properties of class B (that inherits properties of class A)
 that's why class C have both properties of class A and class B.

Syntax:

class class A :

 // class code

class class B (base class A) :

 // class code

class class C (base class B) :

 // class code