

Practical No.9

Roll No. 2049

Q1) Single inheritance in python

```
class Parent1:
    def func_1(self):
        print("This function is defined i
inside the parent class.")

class Child1(Parent1):
    def func_2(self):
        print("This function is defined i
inside the child class.")
```

```
object = Child1()
object.func_1()
object.func_2()
```

Output:

Output

```
Hi.. I am Vivek
Python Developer
```

```
class Parent1:
    def func1(self):
        print("This is Parent1 class")

class Parent2:
    def func2(self):
        print("This is Parent2 class")

class Child(Parent1, Parent2):
    def func3(self):
        print("This is Child class")
```

```
obj = Child()
obj.func1()
obj.func2()
obj.func3()
```

```
This is Parent1 class
This is Parent2 class
This is Child class
```

Q3) Multilevel inheritance in python.

Q2) Multiple inheritance in python.

```

class Grandparent:
    def func1(self):
        print("This is Grandparent class")

class Parent(Grandparent):
    def func2(self):
        print("This is Parent class")

class Child(Parent):
    def func3(self):
        print("This is Child class")

obj = Child()
obj.func1()
obj.func2()
obj.func3()

```

```

This is Grandparent class
This is Parent class
This is Child class

```

Q4) Hierarchical inheritance in python.

```

class Parent:
    def func1(self):
        print("This is Parent class")

class Child1(Parent):
    def func2(self):
        print("This is Child1 class")

class Child2(Parent):
    def func3(self):
        print("This is Child2 class")

```

```

obj1 = Child1()
obj2 = Child2()

```

```

obj1.func1()
obj1.func2()

```

```

obj2.func1()
obj2.func3()

```

Output:

```

This is Parent class
This is Child1 class
This is Parent class
This is Child2 class

```

Q4) Hybrid inheritance in python.

```

class Grandparent:
    def func1(self):
        print("This is Grandparent class")

class Parent(Grandparent):
    def func2(self):
        print("This is Parent class")

class Uncle(Grandparent):
    def func3(self):
        print("This is Uncle class")

class Child(Parent, Uncle):
    def func4(self):
        print("This is Child class")

```

```

obj = Child()

```

```

obj.func1()
obj.func2()
obj.func3()
obj.func4()

```

```

This is Grandparent class
This is Parent class
This is Uncle class
This is Child class

```

