

# Assignment -Inheritance(Enroll No.-160210107020)

## inheritance.py

```
class Doctor:
```

```
    __id=""
```

```
    __name=""
```

```
    def __init__(self,id,name):
```

```
        self._set_data(id,name)
```

```
    def _set_data(self,id,name):
```

```
        self.id=id
```

```
        self.name=name
```

```
    def print_details(self):
```

```
        return self.id + "\t\t" + "Dr." + self.name + "\t"
```

```
class Doct_Covid19(Doctor):
```

```
    __onduty=False
```

```
    def __init__(self,id,name,onduty):
```

```
        self._provide_data(id,name,onduty)
```

```
    def _provide_data(self,id,name,onduty):
```

```
        super().__init__(id,name)
```

```
        self._onduty=onduty
```

```
    def __str__(self):
```

```
        if self._onduty==True:
```

```
            return "Doctor Id" + "\t" + "Doctor Name" + "\t" + "is On Duty\n" +
```

```
self.print_details() + "Yes"
```

```
        else:
```

```
            return "Doctor Id" + "\t" + "Doctor Name" + "\t" + "is On Duty\n" +
```

```
self.print_details() + "No"
```


```
d1=Doct_Covid19("1","Dhruvi",True)
```

```
print(d1)
```

```
d2=Doct_Covid19("2","Divya",False)
```

```
print(d2)
```

## Output:

 C:\Windows\System32\cmd.exe

Microsoft Windows [Version 10.0.18363.592]

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C:\Users\Moksha\Documents>inheritance.py

Doctor Id	Doctor Name	is On Duty
1	Dr.Dhruvi	Yes
Doctor Id	Doctor Name	is On Duty
2	Dr.Divya	No