

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._set_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:\> 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
```