

In []:

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```
In [48]: class Student:
        place = "DC"

        def __init__(self, name, school):
            self.name = name
            self.course = school

Student1 = Student("Karen", "GWU")
Student2 = Student("Fred", "GeorgeTown")
Student3 = Student("Jessica", "Howard")
Student4 = Student("Alex", "James Madision")

print(Student1.name)
print(Student2.name)
print(Student3.name)
print(Student4.name)
```

Karen
Fred
Jessica
Alex

```
In [43]: class point:
        def __init__(x=0,y=0):
            import math

x = 0
y = 0
math.sqrt(x**2+y**2)
```

Out[43]: 0.0

```
In [10]: class A:
        def __init__(self, i=0):
            self.i = i

        class B(A):
            def __init__(self, j=0):
            def main():
                b=B()
                print(b.i)
                print(b.j)
main()
```

File "/var/folders/h9/tlrjkmj57hvbb10mbgllmnp40000gn/T/ipykernel_61330/231956312.py", line 6
def main():
^

IndentationError: expected an indented block

In []: (B) Class B inherits A, thus automatically inherits all data fields in A. is correct

```
In [7]: def main():
        print("hello ", end="")
        try:
            if_name_ == "_main_":
                main()
        except:
            print("name")
        finally:
            print("world")
```

```
File "/var/folders/h9/tlrjkmj57hvbb10mbgllmnp40000gn/T/ipykernel_61330/2444296280.py", line
4
    if_name_ == "_main_":
                                ^
SyntaxError: invalid syntax
```

```
In [6]: class People():
        def __init__(self, name):
            self.name = name
        def namePrint(self):
            print(self.name)
person1 = People("Sally")
person2 = People("Louise")
person1.namePrint()
```

```
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TypeError                                Traceback (most recent call last)
/var/folders/h9/tlrjkmj57hvbb10mbgllmnp40000gn/T/ipykernel_61330/2174808604.py in <module>
      4     def namePrint(self):
      5         print(self.name)
----> 6 person1 = People("Sally")
      7 person2 = People("Louise")
      8 person1.namePrint()

TypeError: People() takes no arguments
```

In []: (B) The __init__ method is used to set initial values for attributes. is the incorrect statement

```
In [2]: x = "hello"
        if not type(x) is int:
            raise TypeError("Only integers are allowed")
```

```
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TypeError                                Traceback (most recent call last)
/var/folders/h9/tlrjkmj57hvbb10mbgllmnp40000gn/T/ipykernel_61330/2591212914.py in <module>
      1 x = "hello"
      2 if not type(x) is int:
----> 3     raise TypeError("Only integers are allowed")

TypeError: Only integers are allowed
```

In []: