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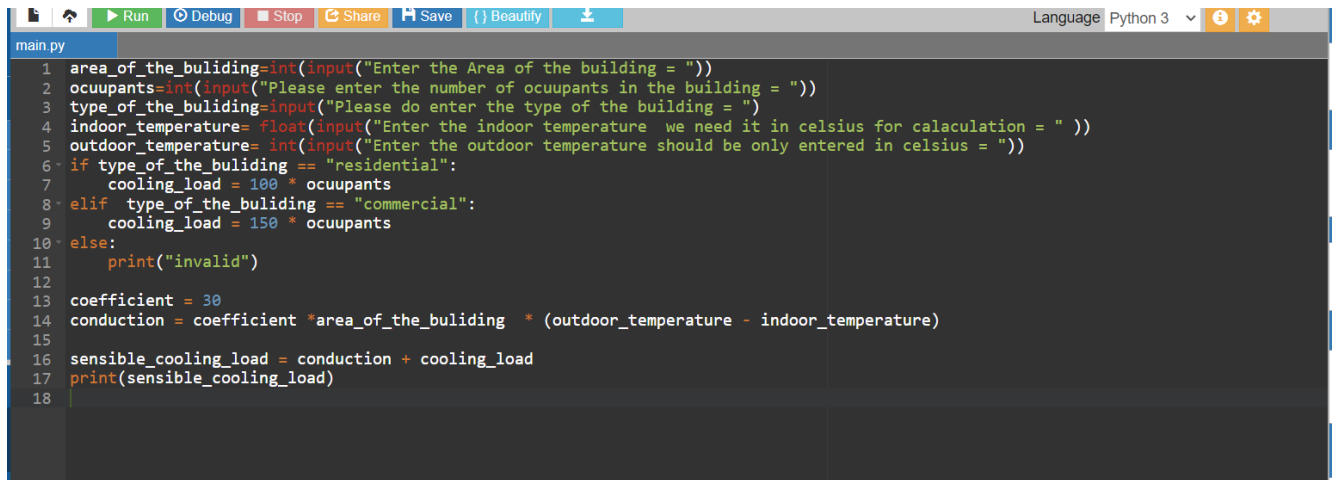
CODE

```
area_of_the_buliding=int(input("Enter the Area of the building = "))
occupants=int(input("Please enter the number of occupants in the building = "))
type_of_the_buliding=input("Please do enter the type of the building = ")
indoor_temperature= float(input("Enter the indoor temperature we need it in celsius for
calaculation = " ))
outdoor_temperature= int(input("Enter the outdoor temperature should be only entered in celsius =
"))
if type_of_the_buliding == "residential":
    cooling_load = 100 * occupants
elif type_of_the_buliding == "commercial":
    cooling_load = 150 * occupants
else:
    print("invalid")

coefficient = 30
conduction = coefficient *area_of_the_buliding * (outdoor_temperature - indoor_temperature)

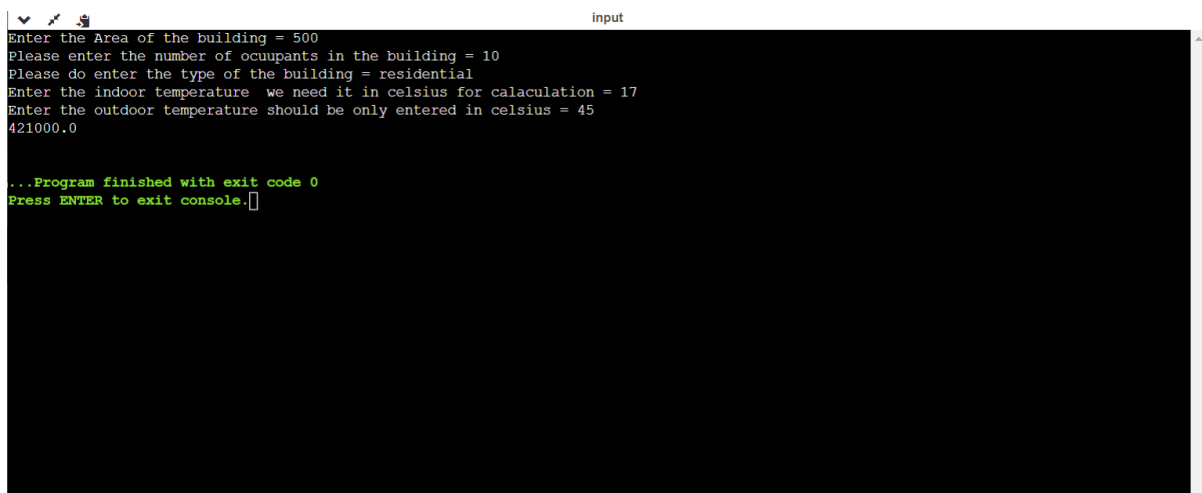
sensible_cooling_load = conduction + cooling_load
print(sensible_cooling_load)
```

## COMPILER SCREENSHOT



```
1 area_of_the_buliding=int(input("Enter the Area of the building = "))
2 occupants=int(input("Please enter the number of ocuupants in the building = "))
3 type_of_the_buliding=input("Please do enter the type of the building = ")
4 indoor_temperature= float(input("Enter the indoor temperature we need it in celsius for calaculation = " ))
5 outdoor_temperature= int(input("Enter the outdoor temperature should be only entered in celsius = "))
6 if type_of_the_buliding == "residential":
7     cooling_load = 100 * occupants
8 elif type_of_the_buliding == "commercial":
9     cooling_load = 150 * occupants
10 else:
11     print("invalid")
12
13 coefficient = 30
14 conduction = coefficient *area_of_the_buliding * (outdoor_temperature - indoor_temperature)
15
16 sensible_cooling_load = conduction + cooling_load
17 print(sensible_cooling_load)
18
```

## OUTPUT-



```
input
Enter the Area of the building = 500
Please enter the number of ocuupants in the building = 10
Please do enter the type of the building = residential
Enter the indoor temperature we need it in celsius for calaculation = 17
Enter the outdoor temperature should be only entered in celsius = 45
421000.0

...Program finished with exit code 0
Press ENTER to exit console
```

ANSWER FOR THE GIVEN INPUTS 421000