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Code JupyterLab

[19]:
```
age=int(input("enter the age:"))
if (age==10 and age<=19):
    print("the person is an teenager")
elif (age==20 and age<=29):
    print("the person is an adult")
elif (age==30 and age<=49):
    print("the person is a citizen")
elif (age==50 and age<=59):
    print("the person is a senior citizen")
```

```
enter the age: 50
the person is a senior citizen
```

[ ]:

[19]:
```
age=int(input("enter the age:"))
if (age==10 and age<=19):
    print("the person is an teenager")
elif (age==20 and age<=29):
    print("the person is an adult")
elif (age==30 and age<=49):
    print("the person is a citizen")
elif (age==50 and age<=59):
    print("the person is a senior citizen")
```

```
enter the age: 50
the person is a senior citizen
```

[21]:
```
num=int(input("enter the number:"))
if num%2==0:
    print("the number is even")
else:
    print("the number is odd")
```

```
enter the number: 3
the number is odd
```

[ ]:

```
]: i=1
for i in range(1,25):
    print(i)
```

```
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
```

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Code | JupyterLab | Python 3 (ipykernel)

```
24
```

[29]:
```
i=1
while i<25:
    print(i)
    i+=1
```

```
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
```

[37]:
```
for i in range(100):
    if i==100:
        break
```

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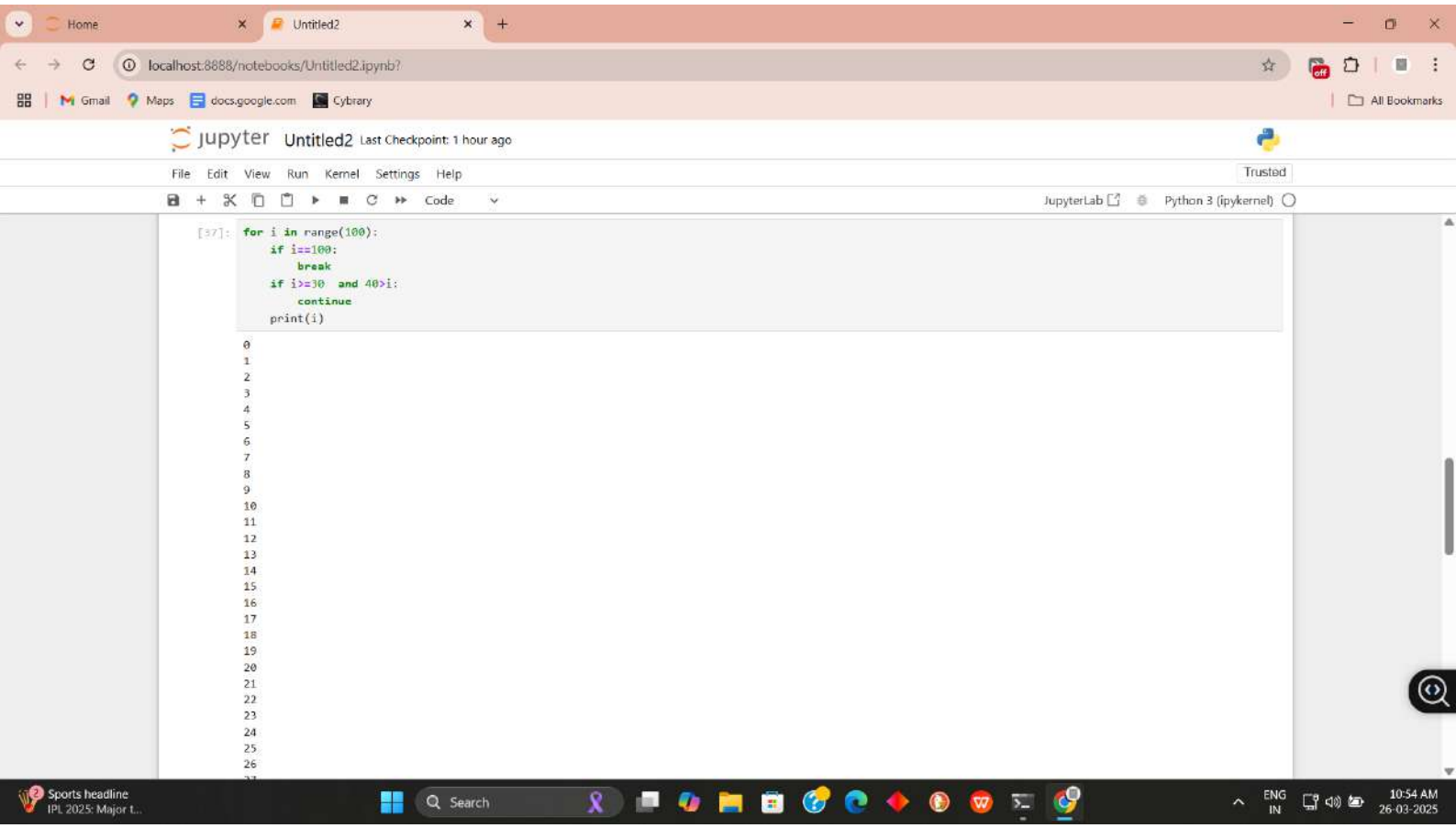
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Code
JupyterLab
Python 3 (ipykernel)
[37]:
for i in range(100):
if i==100:
break
if i>=30 and 40>i:
continue
print(i)
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
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```
f1drivers=["verstappen","hamilton","leclerc","norris"]
f1principal=["vasseur","toto wolff","ayao komatsu","zak brown"]
f1team=["redbull","ferrari","mclaren","mercedes"]
print(f1team[3])
print(f1drivers[2])
print(f1principal[1])
```

```
mercedes
leclerc
toto wolff
```


Code
JupyterLab
Python 3 (ipykernel)
[1]:
fruits=["apple","banana","cherry"]
print(fruits[1])
banana
[ ]:

[1]:
```
fruits=["apple","banana","cherry"]
print(fruits[1])
```

```
banana
```

[5]:
```
f1drivers=["verstappen","hamilton","leclerc","norris"]
f1principal=["vasseur","toto wolff","ayao komatsu","zak brown"]
f1team=["redbull","ferrari","mclaren","mercedes"]
print(f1team[3])
print(f1drivers[2])
print(f1principal[1])
```

```
mercedes
leclerc
toto wolff
```

[1]:
```
person = {"name": "balurathinam", "age": 22,"city":"madurai"}
print(person["name"])
```

```
balurathinam
```

[3]:
```
jio={ "facewash":"100","shampoo":"50","dates":"500"}
dmart={"facewash":"120","shampoo":"40","dates":"300"}
pottikadai={"facewash":"80","shampoo":"10","dates":"100"}
print(jio["facewash"])
print(dmart["facewash"])
print(pottikadai["facewash"])
```

```
100
120
80
```

```
import pandas as pd
# create a dataset
data={
    "name":["verstappen","hamilton","leclerc","russel"],"points":["3254","4000","1521","950"],"podiums":["116","150","75","40"]}
#convert to dataframe
df=pd.DataFrame(data)
print("dataset created:")
print(df)
```

```
dataset created:
         name points podiums
0  verstappen   3254     116
1    hamilton   4000     150
2     leclerc   1521      75
3      russel    950      40
```

```
3      russel    950      40
```

7]:
```
filename = "racers.xlsx"
df.to_excel(filename,index=False) #save without index
```

5]:
```
df
```

5]:

	name	points	podiums
0	verstappen	3254	116
1	hamilton	4000	150
2	leclerc	1521	75
3	russel	950	40

19]:
```
df= pd.read_excel(filename)
df["average points"] = (df["points"]) + (df["podiums"]) / 2
print("updated Data with average points:")
print(df)
```

```
updated Data with average points:
         name  points  podiums  average points
0  verstappen    3254      116          3312.0
1    hamilton    4000      150          4075.0
2     leclerc    1521       75          1558.5
3      russel     950       40           970.0
```

[ ]: