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Subject: Python Programming

Class: BSIT Part 2 , 4th sem

Assignment 3

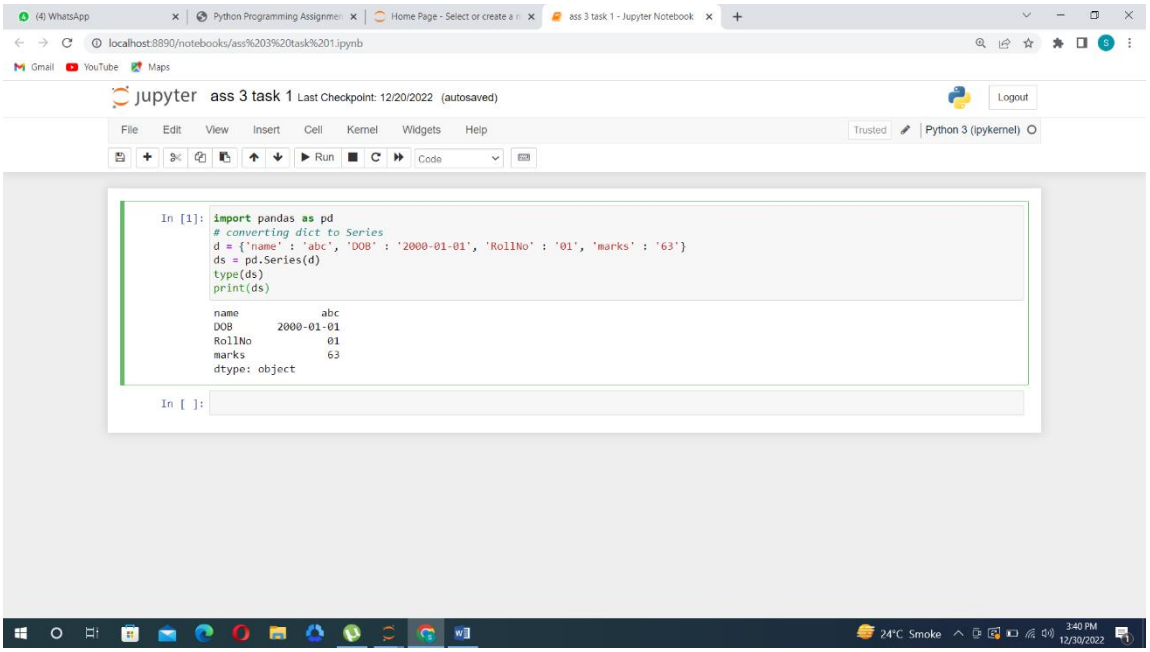
Task 01: Write down a code which convert following Dictionary to Series:

heading: name, DoB, RollNo, marks

values: ‘abc’, ‘2000-01-01’, ‘01’,63

code:

```
import pandas as pd
# converting dict to Series
d = {'name' : 'abc', 'DOB' : '2000-01-01', 'RollNo' : '01', 'marks' : '63'}
ds = pd.Series(d)
type(ds)
print(ds)
```

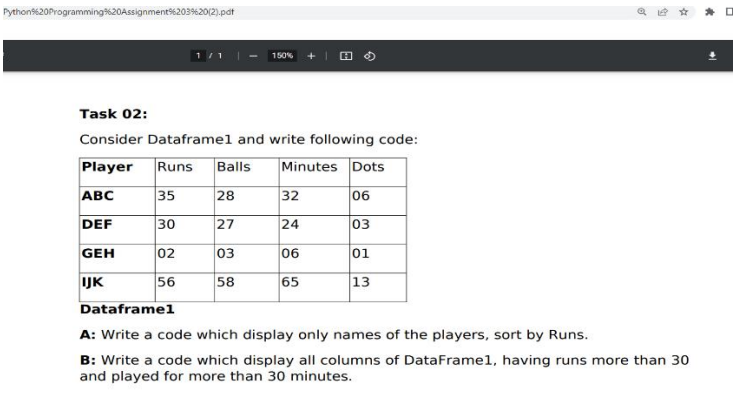


Task 02: Consider Dataframe1 and write following code:

Dataframe1

A: Write a code which display only names of the players, sort by Runs.

B: Write a code which display all columns of DataFrame1, having runs more than 30 and played for more than 30 minutes.



Task 02:

Consider Dataframe1 and write following code:

Player	Runs	Balls	Minutes	Dots
ABC	35	28	32	06
DEF	30	27	24	03
GEH	02	03	06	01
IJK	56	58	65	13

Dataframe1

A: Write a code which display only names of the players, sort by Runs.

B: Write a code which display all columns of DataFrame1, having runs more than 30 and played for more than 30 minutes.

Code:

Create DataFrame1

```
import pandas as pd
data = { 'Player' : ['ABC', 'DEF', 'GEH', 'IJK'],
'Runs' : [35, 30, 0.2, 56],
'Balls' : [28, 27, 0.3, 58],
'Minutes' : [32, 24, 0.6, 65],
'Dots' : [0.6, 0.3, 0.1, 13]
}
df = pd.DataFrame(data)
type(df)
df
```

A:

```
new_df= df.sort_values(by=['Runs'])
new_df
```

```
new_df [['Player','Runs']]
```

B: Display DataFrame1

```
df
```

having runs more than 30

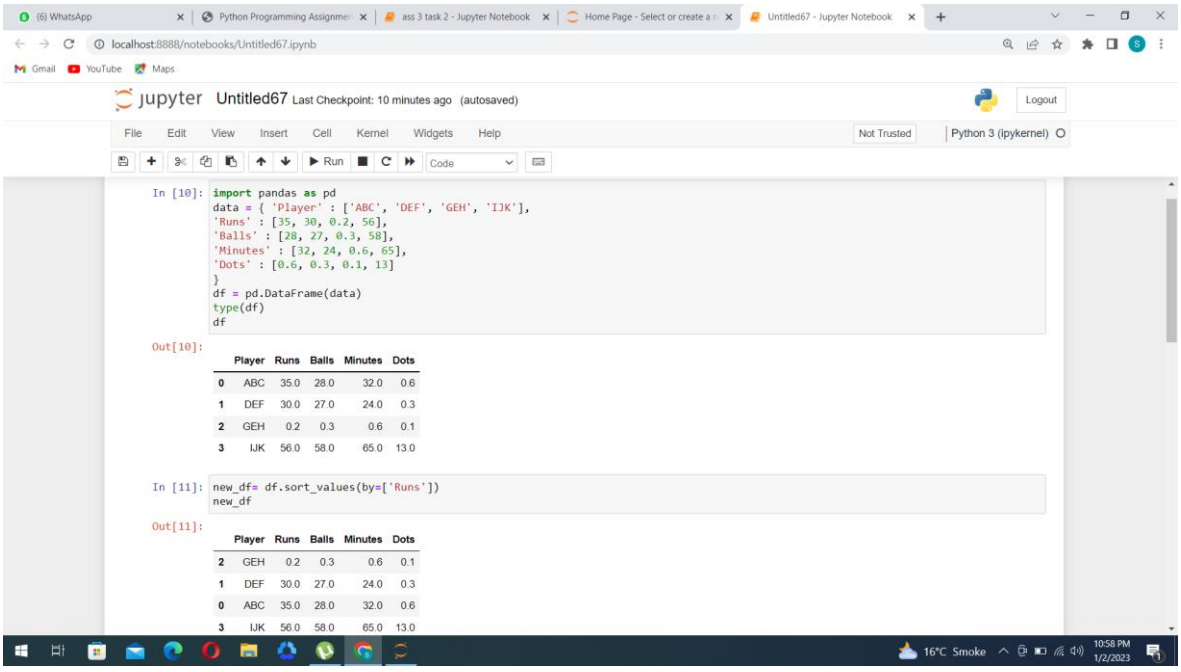
```
df = df[df['Runs'] >30]
df
```

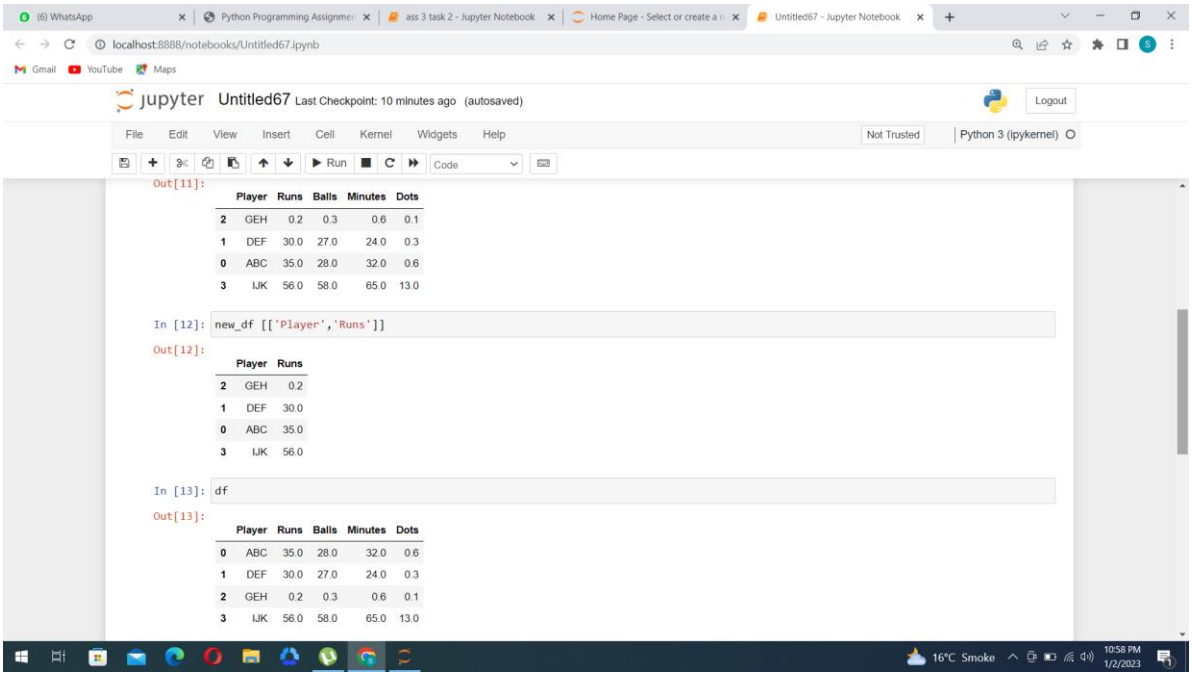
played for more than 30 minutes.

```
df = df[df['Minutes'] >30]
df
```

having runs more than 30 and played for more than 30 minutes.

```
df = df[df[['Runs','Minutes']] >30]
df
```





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Run Code

Out[11]:

	Player	Runs	Balls	Minutes	Dots
2	GEH	0.2	0.3	0.6	0.1
1	DEF	30.0	27.0	24.0	0.3
0	ABC	35.0	28.0	32.0	0.6
3	IJK	56.0	58.0	65.0	13.0

In [12]:
```
new_df [['Player','Runs']]
```

Out[12]:

	Player	Runs
2	GEH	0.2
1	DEF	30.0
0	ABC	35.0
3	IJK	56.0

In [13]:
```
df
```

Out[13]:

	Player	Runs	Balls	Minutes	Dots
0	ABC	35.0	28.0	32.0	0.6
1	DEF	30.0	27.0	24.0	0.3
2	GEH	0.2	0.3	0.6	0.1
3	IJK	56.0	58.0	65.0	13.0

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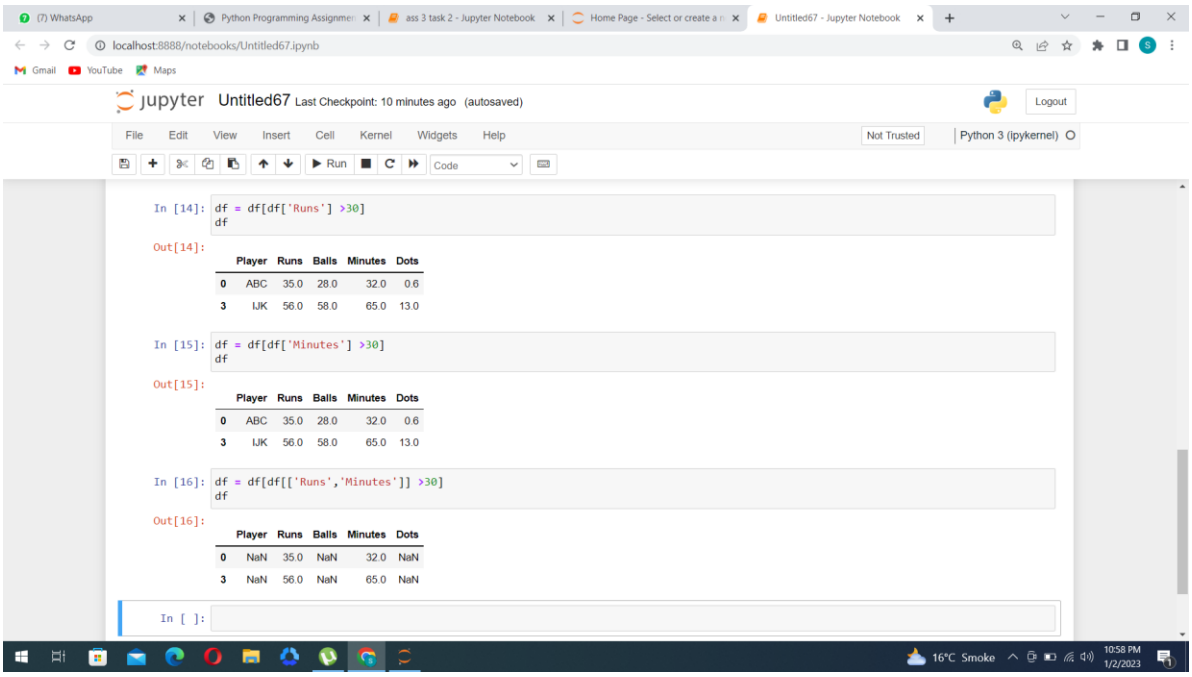

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Run Code

In [14]:
```
df = df[df['Runs'] >30]
df
```

Out[14]:

	Player	Runs	Balls	Minutes	Dots
0	ABC	35.0	28.0	32.0	0.6
3	IJK	56.0	58.0	65.0	13.0

In [15]:
```
df = df[df['Minutes'] >30]
df
```

Out[15]:

	Player	Runs	Balls	Minutes	Dots
0	ABC	35.0	28.0	32.0	0.6
3	IJK	56.0	58.0	65.0	13.0

In [16]:
```
df = df[df[['Runs','Minutes']] >30]
df
```

Out[16]:

	Player	Runs	Balls	Minutes	Dots
0	NaN	35.0	NaN	32.0	NaN
3	NaN	56.0	NaN	65.0	NaN

In [ ]:

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