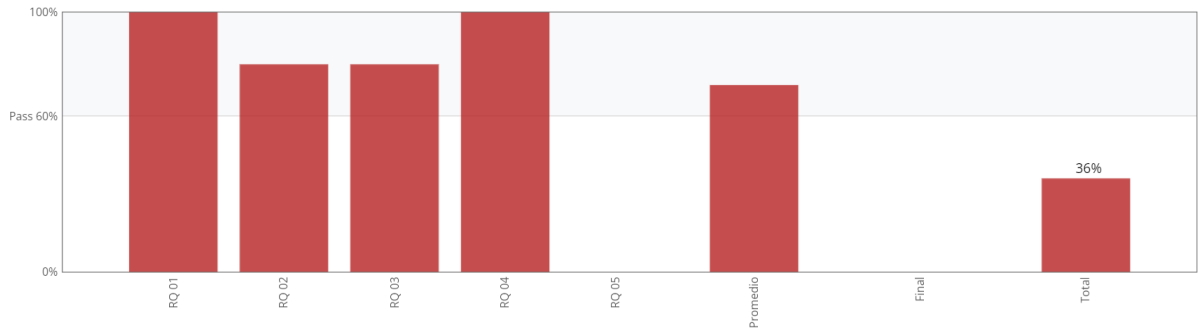Karla Daniela Valenzuela Gomez

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Semana 2 - Actividad 1: Python for Data Science (IBM)

Progreso del curso para el estudiante 'Danielav96' con el correo (A00819192@tec.mx)



1/1 punto (no calificado)

Consider the dataframe `df` . How would you find the element in the second row and first column?

- ○ df.ix[0,1] or df.iloc[0,1]
- ◉ df.ix[1,0] or df.iloc[1,0]
- ○ df[1,1]

✔

Guardar

**Enviar**   Ha realizado 1 de 2 intentos

✔ Correcto (1/1 punto)

## QUESTION 2

1/1 punto (no calificado)

Will the following code run?

```
import pandas as banana
df=banana.DataFrame({'a':[11,21,31],'b':[21,22,23]})
df.head()
```

- ◉ Yes
- ○ No

## QUESTION 1

0/1 punto (no calificado)

Consider the dataframe: `df=pd.DataFrame({'a':[1,2,1],'b':[1,1,1]})`

What type does the following return: `df['a']==1` ?

- ⦿ int
- ◯ bool
- ◯ float

✖

**Enviar**   Ha realizado 2 de 2 intentos

✖ Incorrecto (0/1 punto)

## QUESTION 2

1/1 punto (no calificado)

What task does the following method perform: `df.to_csv("file.csv")` ?

- ⦿ Save a dataframe to a csv file.
- ◯ Load a csv file to a dataframe.

✔

## Question 1

1/1 punto (calificado)

What do the following lines of code do?

```
with open("Example1.txt","r") as file1:
        FileContent=file1.readlines()
        print(FileContent)
```

- ⦿ Read the file "Example1.txt".
- ◯ Write to the file "Example1.txt".
- ◯ Append the file "Example1.txt".

✔

Guardar

**Enviar**   Ha realizado 1 de 2 intentos

✔ Correcto (1/1 punto)

## Question 2

1/1 punto (calificado)

What do the following lines of code do?

```
with open("Example2.txt","w") as writefile:
        writefile.write("This is line A\n")
        writefile.write("This is line B\n")
```

- ◯ Read the file "Example2.txt".
- ⦿ Write to the file "Example2.txt".
- ◯ Append the file "Example2.txt".

✔

## Question 3

1/1 punto (calificado)

What do the following lines of code do?

```
with open("Example3.txt","a") as file1:

        file1.write("This is line C\n")
```

- ○ Read the file "Example3.txt".

- ○ Write to the file "Example3.txt".

- ● Append the file "Example3.txt". ✓

Guardar

**Enviar**  Ha realizado 1 de 2 intentos

✔ Correcto (1/1 punto)

## Question 4

1/1 punto (calificado)

What is the result of applying the following method `df.head()` to the dataframe "df"?

- ○ Prints the first row of the dataframe.

- ○ Prints the first column of the dataframe.

- ● Prints the first 5 rows of the dataframe.

- ○ Prints out the entire dataframe.

✓

Guardar

**Enviar**  Ha realizado 1 de 2 intentos

# LABS

Use a variable `q` to store the column **Rating** as a dataframe

```
[6]: # Write your code below and press Shift+Enter to execute
q = df[['Rating']]
q
```

[6]:

| | Rating |
|---|---|
| 0 | 10.0 |
| 1 | 9.5 |
| 2 | 9.0 |
| 3 | 8.5 |
| 4 | 8.0 |
| 5 | 7.5 |
| 6 | 7.0 |
| 7 | 6.5 |

Assign the variable `q` to the dataframe that is made up of the column **Released** and **Artist**:

```
[7]: # Write your code below and press Shift+Enter to execute
q = df[['Released', 'Artist']]
q
```

[7]:

| | Released | Artist |
|---|---|---|
| 0 | 1982 | Michael Jackson |
| 1 | 1980 | AC/DC |
| 2 | 1973 | Pink Floyd |
| 3 | 1992 | Whitney Houston |
| 4 | 1977 | Meat Loaf |
| 5 | 1976 | Eagles |
| 6 | 1977 | Bee Gees |
| 7 | 1977 | Fleetwood Mac |

Access the 2nd row and the 3rd column of `df` :

```
[9]:  # Write your code below and press Shift+Enter to execute
      df.iloc[2,1]
```

```
[9]:  'The Dark Side of the Moon'
```

```
[10]:  new_index=['a','b','c','d','e','f','g','h']
       df_new=df
       df_new.index=new_index
       df_new.loc['a', 'Artist']
       df_new.loc['a':'d', 'Artist']
```

```
[10]:  a      Michael Jackson
       b                AC/DC
       c           Pink Floyd
       d      Whitney Houston
       Name: Artist, dtype: object
```