

Presidential Initiative for Artificial Intelligence and Computing (PIAIC)

PIAIC Batch 2 IoT (Session 12:15PM - 3:15PM)



<https://www.piaic.org>

Internet of Things (IoT) Specialist Program

Quarter I: Rust Programming

Assignment # 10

VECTOR

1. Make a new empty vector of `shopping_cart` and push the given elements to it.
"orange", "banana", "apple"
2. Print the items in the list and the length of list using the `len()` method.
4. Make another vector by directly initializing it with the following prices 20,30,40 and print it.
5. With help of for loop add tax '5' in each price and print them.
6. Now using `get()` method try to print the first item of `shopping_cart`.

Output expected:

3 items are available
["orange", "banana", "apple"]
Price: [20, 30, 40]
25
35
45
First item in the list: orange

STRING

1. Create a new empty string **"japanese"** and push " 안녕하세요 " to it.
2. Convert "عليكم السلام" to string type and assign it to another variable **"arabic"**.
3. Concatenate the above variables and store them to a third variable **"jap_ara"**.
4. Update the variable **"jap_ara"** with a character '!' and print it.
5. Use for loop to print characters and bytes of the variable **"arabic"**.

Output expected:

"안녕하세요 عليكم! السلام"

ا

ل

س

ل

ا

م

ع

ل

ي

ك

م

216

.

.

133

HASHMAP:

1. Create a HashMap with name Team_scores that consist of three teams as **keys** and their runs as the **values**.

[Pakistan: 250, New Zealand:309, England:224]

2. Add the fourth team as **key** with its runs as **value** it might be any team from the above given teams or it might be some new team of your choice. But if it's from the above given teams then the runs should **not be updated** and if it's of your choice then the runs **should add**. (HINT entry() , or_insert())

3. Print the HashMap with for loop.

For reference, review book and videos available on portal “Rust Programming Language Lesson 8”.

Important: Use meaningful names while declaring variables and functions. Avoid 'a', 'b', 'x', 'y', etc..

Please click [here](#) to submit your assignment

(or paste this link in your browser
<https://forms.gle/8wPER9mejyNBLvfc8>)