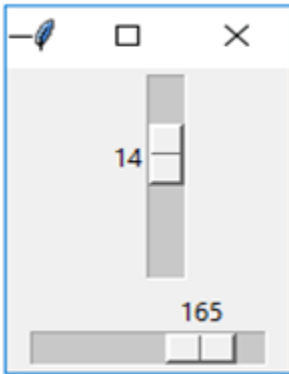


1. Observe the given output image and find the appropriate set of commands to code it using tkinter in python.



(a)  

```
from tkinter import *  
mt= Tk()  
w = Scrollbar (mt, from_=0, to=32)  
w.pack()  
w = Scrollbar(mt, from_=0, to=180, orient=HORIZONTAL)  
w.pack()  
mainloop()
```

(b)  

```
from tkinter import *  
mt= Tk()  
w = Scale(mt, from_=0, to=32)  
w.pack()  
w = Scale(mt, from_=0, to=180, orient=VERTICAL)  
w.pack()  
mainloop()
```

(c)  

```
from tkinter import *  
mt= Tk()  
w = Scale(mt, from_=0, to=32)  
w.pack()  
w = Scrollbar(mt, from_=0, to=180, orient=VERTICAL)  
w.pack()  
mainloop()
```

(d)  

```
from tkinter import *  
mt= Tk()  
w = Scale(mt, from_=0, to=32)  
w.pack()  
w = Scale(mt, from_=0, to=180, orient=HORIZONTAL)  
w.pack()  
mainloop()
```

--

2. What will be the output of the following:

```
fruits = ("apple", "banana", "cherry", "mango")
counting = (1, 2, 3, 4)
mytuple=()
temp=()
myList=[]
for no in counting:
    for food in fruits:
        for i in range(no):
            myList.append(food)
        temp = tuple(myList)
    mytuple += temp
    myList=[]
print(mytuple[2])
```

(a)apple
(b)banana
(c)cherry
(d)mango

3. With help of the following code snippet, choose the correct option to define the add function to produce the output (Refer the image) as shown:

**Output:**



```
{1: 'Orange', 2: 'Apple', 3: 'Mango', 4: 'PineApple', 5: 'WaterMelon', 6: 'Grapes', 7: 'Fruit'}
```

**Code:**

```
class my_dict(dict):

    # __init__ function
    def __init__(self):
        self = dict()
```

```

# Function to add key:value

# Main Function
obj = my_dict()

obj.add(1,'Orange')
obj.add(2,'Apple')
obj.add(3,'Mango')
obj.add(4,'PineApple')
obj.add(5,'WaterMelon')
obj.add(6, 'Grapes')
obj.add(7)
print(obj)

```

<pre> (a) def add(key, value='Fruit'):     dict[key] = value </pre>
<pre> (b) def add(key, value='Fruit'):     self[key] = value </pre>
<pre> (c) def add(self, key, value='Fruit'):     self[key] = value </pre>
<pre> (d) def add(self, key, value='Fruit'):     dict[key] = value </pre>

4. A programmer is creating a phone book program where he wants to save numbers along with the name of the person. In the following code snippet, what is the data type used by the programmer?

```

contacts = [{"Sheena",[9082231195,9022717994]]};
person = ["Paakhi",[5674450922]]
contacts.append(person)
person = [{"tina",[7447878490]},{"Vinay",[2344789034]]}
contacts.extend(person)
for people in contacts:
    print people

```

(a) ['Sheena', [9082231195, 9022717994]] [['Paakhi', [5674450922]], ['tina', [7447878490]], ['Vinay', [2344789034]]]
(b) ['Sheena', [9082231195, 9022717994]] ['Paakhi', [5674450922]] [['tina', [7447878490]], ['Vinay', [2344789034]]]
(c) ['Sheena', [9082231195, 9022717994]] ['Paakhi', [5674450922]] ['tina', [7447878490]] ['Vinay', [2344789034]]
(d) ['Sheena', [9082231195, 9022717994]] ['Paakhi', [5674450922]] ['tina', [7447878490]]