9913_python_exp_2

January 29, 2024

[2]:
```
n = int(input("Enter a number: "))
d1 = n//10
d2 = n%10
print(d1,d2)
```

```
Enter a number: 96
9 6
```

[7]:
```
n = input("Enter number: ")
print(len(n))
```

```
Enter number: 987
3
```

[9]:
```
l = [1,2,3,4,5]
le=[]
lo=[]

for i in l:
    if i%2==0:
        le.append(i*i)
    else:
        lo.append(i*i)

print(le)
print(lo)
```

```
[4, 16]
[1, 9, 25]
```

[22]:
```
l = ['Mon','Tues','Wed','Thurs','Fri','Sat']
l= [x.lower() for x in l]

day = input("Enter a day: ")
day = day.lower()

if day in l :
    print(f"{day} is a day of the week")
```

```
else:
    print(f"{day} is not a day of the week")
```

```
Enter a day: sat
sat is a day of the week
```

[26]:
```
t = (1,2,3)
l=list(t)
l.remove(3)
l.append("apple")
l.append("orange")
print(l)
```

```
[1, 2, 'apple', 'orange']
```

[29]:
```
a = 67
b = 77
print(f"a={a}, b={b}")
(a,b) = (b,a)
print(f"a={a}, b={b}")
```

```
a=67, b=77
a=77, b=67
```

[32]:
```
d = {}
d={"txt":"text",'png':'file','py':'python file'}
print(d)
d['doc'] = 'Word File'
print(d)
```

```
{'txt': 'text', 'png': 'file', 'py': 'python file'}
{'txt': 'text', 'png': 'file', 'py': 'python file', 'doc': 'Word File'}
```

[56]:
```
s1 = {1, 2, 3, 4, 5}
s2 = {4, 5, 6, 7, 8}

print(f"union set = {s1.union(s2)}")

print(f"intersection set = {s1.intersection(s2)}")

print(f"Differernce set(s1-s2) = {s1.difference(s2)}")
print(f"Differernce set(s2-s1) = {s2.difference(s1)}")

print(f"Symmetric difference = {s1.symmetric_difference(s2)}")
```

```
union set = {1, 2, 3, 4, 5, 6, 7, 8}
intersection set = {4, 5}
Differernce set(s1-s2) = {1, 2, 3}
Differernce set(s2-s1) = {8, 6, 7}
Symmetric difference = {1, 2, 3, 6, 7, 8}
```

[61]:
```
l = ["Jan", 'Feb', 'Mar', 'Apr','May','Jun','Jul','Aug','Sep','Oct','Nov','Dec']
date = input("Enter date: ")
date = date.replace(',',"")
date = date.split()
date[1] = l.index(date[1])+1
date[0]=int(date[0])
date[1]=int(date[1])
date[2]= int(date[2])
date = tuple(date[::-1])

print(date)
```

```
Enter date: 6 Feb 2008
(2008, 2, 6)
```

[67]:
```
x = [1,"abcd", 2,"efgh", [3, 4]]
y = x [0:50] # Statement 2
z = y # Statement 3
w = x # Statement 4
x[1] = x[1] + 'd' # Statement 5
y[2] = 4 # Statement 6
x[1][1] = 'y' # Statement 7
z[0] = 0 # Statement 8
w[4][0] = 1000 # Statement 9
a = (x[4][1] == 4) # Statement 10
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-67-73f77c37d725> in <module>
      5 x[1] = x[1] + 'd' # Statement 5
      6 y[2] = 4 # Statement 6
----> 7 x[1][1] = 'y' # Statement 7
      8 z[0] = 0 # Statement 8
      9 w[4][0] = 1000 # Statement 9

TypeError: 'str' object does not support item assignment
```

[55]:
```
```

[81]:
```
import random

thesaurus  = {"hot":['balmy', 'summery', 'tropical', 'boiling', 'scorching'],
"cold":['chilly', 'cool', 'freezing', 'frigid', 'polar'],
"happy":['content', 'cheery', 'merry', 'jovial', 'jocular'],
```

```
"sad":['unhappy', 'downcast', 'miserable', 'glum', 'melancholy'],}

print("Welcome to the dictionary.")
print("The words in the dictionary are :",end = ' ')
for key in thesaurus.keys():
    print(key,end = ' ')
word = input("\nEnter the word you want a synonym for: ")
#print(random.choice(thesaurus[word]))
if word in thesaurus:
    print(random.choice(thesaurus[word]))
else:
    print('Word is not in dictionary')

ans = input("Do you want to print the entire dictionary(y,n): ")
if ans == 'y':
    print(thesaurus)
else:
    print("Have a good day")
```

```
Welcome to the dictionary.
The words in the dictionary are : hot cold happy sad
Enter the word you want a synonym for: happy
cheery
Do you want to print the entire dictionary(y,n): y
{'hot': ['balmy', 'summery', 'tropical', 'boiling', 'scorching'], 'cold':
['chilly', 'cool', 'freezing', 'frigid', 'polar'], 'happy': ['content',
'cheery', 'merry', 'jovial', 'jocular'], 'sad': ['unhappy', 'downcast',
'miserable', 'glum', 'melancholy']}
```