In [ ]:
```
Experiment1

1)# In a print statement, what happens if you leave out one of the parentheses

print("Not leaving any parenthesis")

# Output: Not leaving any parenthesis

print"Leaving one parenthesis")

# Output : SyntaxError: unmatched ')'

print"leaving both parenthesis"

# Output: SyntaxError: Missing parentheses in call to 'print'. Did you mean pr
```

In [ ]:
```
2)
# If you are trying to print a string, what happens if you leave out one of th

print("Hello World !")

#output : Hello World !

print("Hello world !)

#Output: SyntaxError: unterminated string literal (detected at line 7)

print(Hello World !)

#Output : SyntaxError: invalid syntax. Perhaps you forgot a comma?
```

In [ ]:
```
3)#You can use a minus sign to make a negative number like -2. What happens if

a=2
b=+2
res=a+b

print(res)

res2=2++2

print(res2)

'''Output:
4
4
'''
```

In [ ]:
```
4)#In math notation, leading zeros are ok, as in 09. What happens if you try t

# let's consider adding two numbers containg leading 0's:

res=09+011
print(res)

# Output: SyntaxError: leading zeros in decimal integer literals are not permi
```

In [ ]:
```
5)# What happens if you have two values with no operator between them?

# let's consider two integers with no operator in between them :

456 234

'''Output :
    456 234
       ^^^
SyntaxError: invalid syntax'''
```

In [ ]:
```
Experiment2

1)
'''
Start the Python interpreter and use it as a calculator.
1. How many seconds are there in 42 minutes 42 seconds?
'''
res=42*60+42
print(f"total no. of seconds: ",res)

#Output: total no. of seconds:  2562
```

In [ ]:
```
2)
#  How many miles are there in 10 kilometers? Hint: there are 1.61 kilometers

res=10/1.61
print(f"Total no of miles in 10 Kms :",res)

#Output : Total no of miles in 10 Kms : 6.211180124223602
```

In [ ]:
```
3)
'''If you run a 10 kilometer race in 42 minutes 42 seconds, what is your avera
mile in minutes and seconds)? What is your average speed in miles per hour?'''

miles=10/1.61
time_s=42*60+42  #time in seconds
time_m=42+(42/60) #time in minutes

tmp_m=time_m/miles #time per mile in minutes
tpm_s=time_s/miles  #time per mile in seconds

avg_speed=(miles/time_s)*3600
print(tpm_s,tmp_m,avg_speed)

# Output : 412.482 6.874700000000002  8.727653570337614
```