In [ ]:
```
Exercise 1.1.
```

In [ ]:
```
1. In a print statement, what happens if you leave out one of the parentheses,
Ans: If we leave out one or both of the parentheses in a print statement in a p

Example:
```

In [5]:
```
print("Hello, World!"
```

```
  Cell In[5], line 2

    ^
SyntaxError: incomplete input
```

In [ ]:
```
2. If you are trying to print a string, what happens if you leave out one of th
or both?
Ans:
If we leave out one or both of the quotation marks while trying to print a stri
```

In [4]:
```
print("Hello, World!)
```

```
  Cell In[4], line 1
    print("Hello, World!)
          ^
SyntaxError: unterminated string literal (detected at line 1)
```

In [ ]:
```
3)You can use a minus sign to make a negative number like -2. What happens if y
sign before a number? What about 2++2?
Ans: If we use a plus sign before a number it doesn't change its value; it rema
```

In [ ]:
```

```

In [ ]:
```
4. In math notation, leading zeros are ok, as in 09. What happens if you try th
What about 011?
Ans: We will get syntax error, like in the examples given below:
```

In [2]:
```
print(09)
```

```
  Cell In[2], line 1
    print(09)
          ^
SyntaxError: leading zeros in decimal integer literals are not permitted; use
an 0o prefix for octal integers
```

In [3]:
```
print(011)
```

```
  Cell In[3], line 1
    print(011)
          ^
SyntaxError: leading zeros in decimal integer literals are not permitted; use
an 0o prefix for octal integers
```

In [ ]:
```
5. What happens if you have two values with no operator between them?
Ans: If you have two values with no operator between them in a programming cont
Example:
```

In [1]:
```
result = 5  10
```

```
  Cell In[1], line 1
    result = 5  10
                ^
SyntaxError: invalid syntax
```

In [ ]:
```
Exercise 1.2. Start the Python interpreter and use it as a calculator.
```

In [ ]:
```
1. How many seconds are there in 42 minutes 42 seconds?
Ans:
```

In [6]:
```
seconds= (42*60)+42
print(seconds)
```

```
2562
```

```
2. How many miles are there in 10 kilometers? Hint: there are 1.61 kilometers
in a mile
    Ans:
```

In [9]:
```
#1 mile = 1.61 KM
print(10/1.61)
```

```
6.211180124223602
```

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

In [10]:
```
# Given data
distance_km = 10  # distance in kilometers
time_minutes = 42  # time in minutes
time_seconds = 42  # additional seconds

# Convert kilometers to miles
distance_miles = distance_km / 0.621371

# Convert total time to hours
total_time_hours = (time_minutes + time_seconds / 60) / 60

# Calculate average pace (time per mile)
average_pace = total_time_hours / distance_miles

# Convert average pace to minutes and seconds
pace_minutes = int(average_pace)
pace_seconds = int((average_pace - pace_minutes) * 60)

# Calculate average speed in miles per hour
average_speed_mph = distance_miles / total_time_hours

# Output the results
print("Average pace (time per mile):", pace_minutes, "minutes", pace_seconds, '
print("Average speed (miles per hour):", round(average_speed_mph, 2), "mph")
```

```
Average pace (time per mile): 0 minutes 2 seconds
Average speed (miles per hour): 22.61 mph
```