Lect 4

built in functions

Float function

```
In [3]: | num_int = 10
        print(type(num_int))
        a = float(num_int)
        print(a)
        print(type(a))
        <class 'int'>
        10.0
        <class 'float'>
In [5]: |a = "3.14"
        print(type(a))
        b = float(a)
        print(b)
        print(type(b))
        <class 'str'>
        3.14
        <class 'float'>
```

int function

str function

```
In [13]: a = 56
         print(type(a))
         b = str(a)
         print(b)
         print(type(b))
         c = "2"
         print(b+c)
         print(a+2)
         <class 'int'>
         <class 'str'>
         562
         58
         x = 5.2655418548547
In [15]:
         print(type(x))
         y = str(x)
         print(y)
         print(type(y))
         <class 'float'>
         5.2655418548547
         <class 'str'>
```

complex function

abs function

len function

Practice Questions

question 1

```
In [ ]: In a game application, the player's score is stored
    as a floating-point number. However, for leaderboard display,
    you need to convert the score to an integer.
    How would you use the int() function to convert the
    player's score from floating-point to integer format?
    pls solve this with code, player score = 1234.56
```

```
In [27]: player_score = 1234.56
print("the player score is", int(player_score))
```

the player score is 1234

question 2

```
In [ ]: In a customer relationship management (CRM) system
         for a retail company, you have a database containing
         customer records. How would you use the len() function
         to find the total number of customers in the database,
         allowing the company to track its customer base?
         customer database = [
             (1, 'John Doe', 'john@example.com'),
             (2, 'Jane Smith', 'jane@example.com'),
             (3, 'Alice Johnson', 'alice@example.com'),
         1
In [28]:
         customer_database = [
             (1, 'John Doe', 'john@example.com'),
             (2, 'Jane Smith', 'jane@example.com'),
             (3, 'Alice Johnson', 'alice@example.com'),
         print("the total numer of customers in the database is", len(customer_database)
         the total numer of customers in the database is 3
         question 3
 In [ ]: You're developing a financial application that calculates simple interest.
         The principal amount is 250000 Rs, the interest rate is 9.34567%,
         and the time period is 3 years. Calculate the Simple Interest (SI),
         and the final value should be an integer.
In [30]:
         p = 250000
         r = 9.34567
         t = 3
         SI = ((p*r*t)/100)
         print("the simple interest is",SI)
         print("the integer value is", int(SI))
         the simple interest is 70092.525
         the integer value is 70092
 In [ ]:
```

Homework

In []: You're working at a travel company, responsible for managing passenger informat Due to a technical glitch in the booking system, some passengers' ages were mistakenly recorded as negative values. However, age cannot be negat: and it's essential to correct this data inconsistency before further analysis or reporting.

which function you will use to correct the ages of all passengers in the dataset where negative ages were recorded due to a technical glitch?