VirakAcademy

VirakAcademy Python 2025

Exercises 01 and 02

Deadline: 2025 17 April

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Exercise 01: Basics

Number of Questions: 5

Question01(Basics)

For each of the following variables, try to cast them to the requested type. If the conversion is successful, write the resulting value. If not, explain why using a comment.

Convert to int

price = "15.0"
code = " 007 "
name = "Alice"
is_active = True

Convert to float

score = "3.14"
amount = "3,14"
value = "NaN"
is_logged_in = False

Convert to str

age = 12
average_score = 17.5
is_verified = True

Convert to boolean

username = ""
status = "False"
comment = " "
visits = 0

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Question02(Basics)

Explain the result of the following codes step by step and write comment for that line by line.

```
price_str = "120.5"
price = int(float(price_str))
print("price =", price)

code = str(price) + "0"
print("code =", code)

result = code + price_str
print("result =", result)

final_price = float(result)
print("final_price =", final_price)

discounted = int(final_price)
print("discounted =", discounted)
```

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Question03(Basics)

Write a Python program that takes two float numbers as input from the user. If both numbers are equal, print True. Otherwise, print False.

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Question04(Basics)

Write a Python program that swaps the values of two variables.

```
price_str = "120.5"
price = int(float(price_str))
print("price =", price)

code = str(price) + "0"
print("code =", code)

result = code + price_str
print("result =", result)

final_price = float(result)
print("final_price =", final_price)

discounted = int(final_price)
print("discounted =", discounted)
```

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Question05(Basics)

Write a Python program with the following variable assignments. Check the output for each one. If there’s no error, comment on what the code does. If there’s an error, fix it.

```
price1, price2, price3 = 100, 200, 30.5
score1 = score2 = 18.9
str1, str2, str3 = 'python', 'java'
```

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Exercise 02: String

Number of Questions: 4

Question01(String)

Write a Python program that:

- Takes a string as input from the user.
- Displays the first, last, and middle character of the string. (If the string length is even, display either of the middle characters.)
- Displays the length of the string.
- Displays the characters from the string that are at even indexes (index 0, 2, 4, etc.).
- Displays the string in reverse.
- Displays the first half and the second half of the string.

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Question02(String)

Write a Python program that takes a student ID from the user. If the ID is entirely a number, display True. Otherwise, display False

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Question03(String)

Write a Python program that takes a string as input from the user and removes all spaces from it, including the spaces at the beginning, end, and within the string.

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Question04(String)

Find two new methods for strings in Python that were not covered in class. Write an example to demonstrate their usage.

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GOOD LUCK!

Never give up!

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