* Overview of environment variables in Windows
* Overview of environment variables in Mac or Linux
* Creating Environment Variable in Windows
* Creating Environment Variable in Mac or Linux
* Overview of os.environ
* Reading Environment Variables
* Using setdefault
* Using update
* Application Development using Environment Variables
* Exercise and Solution

1. How do you view environment variables in Python?

a) Using the os.environ function

b) Using the print function

c) Using the input function

d) Using the sys function

Answer: a) Using the os.environ function

1. How do you remove an environment variable in Windows?

a) Using the setx command with a null value

b) Using the delete command

c) Using the unset command

d) Using the clear command

Answer: b) Using the delete command

1. How do you view the value of an environment variable in Mac or Linux?

a) Using the setx command

b) Using the echo command

c) Using the cat command

d) Using the source command

Answer: b) Using the echo command

1. What is the syntax for creating a new environment variable using the setx command in Windows?

a) setx variable\_name variable\_value

b) set variable\_name=variable\_value

c) export variable\_name=variable\_value

d) set variable\_value=variable\_name

Answer: a) setx variable\_name variable\_value

1. What is the syntax for creating a new environment variable using the export command in Mac or Linux?

a) export variable\_name=variable\_value

b) set variable\_name=variable\_value

c) setx variable\_name variable\_value

d) echo variable\_name=variable\_value

Answer: a) export variable\_name=variable\_value

1. How do you access the value of an environment variable using os.environ?

a) os.environ(variable\_name)

b) os.environ[variable\_name]

c) os.variable\_name

d) os.environ.get(variable\_name)

Answer: b) os.environ[variable\_name]

1. How do you access the value of an environment variable in Python?

a) Using the input() function

b) Using the os.environ.get() function

c) Using the print() function

d) Using the len() function

Answer: b) Using the os.environ.get() function

1. How do you use the setdefault method to add a new key-value pair to a dictionary if the key does not already exist?

a) dictionary.setdefault(key, value)

b) dictionary[key] = value

c) dictionary.get(key, value)

d) dictionary.update(key=value)

Answer: a) dictionary.setdefault(key, value)

1. How do you use the update method to update the value of an existing key in a dictionary?

a) dictionary.setdefault(key, value)

b) dictionary[key] = value

c) dictionary.get(key, value)

d) dictionary.update({key: value})

Answer: d) dictionary.update({key: value})

1. What is an example of a configuration setting that can be stored in an environment variable?

a) User password

b) File path

c) Program logic

d) Program output

Answer: b) File path