ICTPRG302 - Apply introductory programming techniques –

Session 10 Worksheet

File I/O in Python

Task 1. Write a program to write a list content to a file. Use the following code (fix all errors).

# initialize a list of most popular cat breeds

cat\_breeds = ['Persian', 'Bengal', 'Siamese', 'Savannah', 'Ragdoll']

file = open("catbreeds.txt", w")

for i in cat\_breeds:

file.write("%s\n" % ?) # replace ? with your code

file.close()

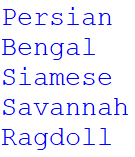
# open file for reading

file = open(catbreeds.txt, "r")

print(file.read())

file.close()

Output:



Task 2. Write a Python program to read a file line by line store it into a list. Use the following code.

# empty list

content\_list = []

# open file for writing

file = open("content.txt", "?") # replace ? with your code

# write number to file

for i in range (10):

file.write(str(i))

file.close()

#open file for reading

file = open(…) # replace … with your code

# list that contains the read lines.

for i in file:

content\_list.append(i)

print(…) # replace … with your code

file.close()

Output:



Task 3. Write a Python program to write UTF-8 characters to a text file. Use the following code.

my\_kanji = "春夏秋冬"

# open file for writing

file = open("kanji.txt", "**?**", encoding="utf-8") # write your code instead of **?**

file.write(my\_kanji)

file.close()

# open file for reading

file = open("kanji.txt", "r", encoding= …) # write your code instead of …

print(file.?()) # write your code instead of ? , use read() method to read a text file

file.close()

Output example:

