***Part 1***

1. ***The perimeter of a rectangle with length 9 & width 7***

l = 9

w = 7

perimeter = 2\*(l+w)

print (perimeter)

1. ***Your name stored as a variable***

name = "Nayan Raj Khanal"

print (name)

1. ***The maximum of 5, 2, -8, 9, 5.5, 7, and 0***

print (max (5,2,-8,9,5.5,7,0))

1. ***Python is great, it’s wild!***

print ("Python is great, it's wild!")

1. ***The difference between Beth’s age (57) and Tom’s (34)***

*beth = 57*

*tom = 34*

*difference = beth - tom*

*print (difference)*

1. ***2 to the 10th power***

print (2\*\*10)

1. ***7 factorial minus 5 factorial***

from math import \*

print (factorial(7) - factorial(5))

1. ***Your forename multiplied by 5***

forename = "Nayan"

print (forename \*5)

1. ***Your name left justified 15 spaces***

name = "Nayan"

print(format(name,'>15'))

1. ***Pi value with 5 decimal***

import math

print(format(math.pi,".5f"))

1. ***A variable with the name def that stores the number 7***

print ("We cannot use reserved keyword in python")

1. ***200 modulus 12***

print (200%12)

1. ***7.2 as an integer value***

number = (int)(7.2)

print(number)

1. ***The Unicode encoding for your name***

name = "Nayan"

i = 0

for i in range (len(name)):

print (ord(name[i]))

***Part 2***

***1. Give the following values in the exponential notation of Python, such that there is only one significant digit to the left of the decimal point.***

***(a) 4580.5034***

print(format(4580.5034,'.1e'))

***(b) 0.00000046004***

print(format(0.00000046004,'.1e'))

***(c) 5000402.000000000006***

print(format(5000402.000000000006,'.1e'))

***2. Regarding the built-in format function in Python***

***(a) Use the format function to display the floating-point value in variable results with three decimal digits of precision.***

number = 69420.69420

print(format(number,".3f"))

***(b) Give a modified version of the format function in (a) so that commas are included in the displayed results.***

number = 69420.69420

print(format(number,",.3f"))

***3. Give a call to print that is provided one string that displays the following address on three separate lines:***

***John Doe***

***123 Dudley Street***

***Wolverhampton, West Midlands, WV1 4BF***

print('\n'"John Doe"'\n'"123 Dudley Street"'\n'"Wolverhampton, West Midlands, WV1 4BF")

***4. Regarding variable assignment,***

***(a) What is the value of the variable num after the following is executed?***

***k = 5***

***num = 0***

***num1 = num + k \* 2***

***num2 = num + k \* 2***

num = 0

***(b) Are the values id(num1) and id(num2) equal after the last statement?***

True

***5. Regarding the built-in input function in Python:***

***(a) Give an instruction that prompts a user for their last name and stores it in a variable named last\_name.***

last\_name = input("Enter your lastname")

print("Your last name is", last\_name)

***(b) Give an instruction that prompts a user for their age and stores it as an integer in a variable named age.***

age = int(input("Enter your age"))

print ("Your age is", age)

***(c) Give an instruction that prompts a user for their temperature and stores it as a float in a variable named current\_temperature.***

current\_temperature = float (input("Enter your temperature"))

print("Your current temperature is", current\_temperature)