PYTHON ASSIGNMENT

11.

num = int(input("Enter a number: "))

factorial = 1

if num < 0:

print(" Factorial does not exist for negative numbers")

elif num == 0:

print("The factorial of 0 is 1")

else:

for i in range(1,num + 1):

factorial = factorial\*i

print("The factorial of",num,"is",factorial)

12. num = int(input("Enter a number: "))

if num > 1:

for i in range(2,num):

if (num % i) == 0:

print(num,"is not a prime number")

print(i,"times",num//i,"is",num)

break

else:

print(num,"is a prime number")

13. my\_str = 'malayalam'

# make it suitable for caseless comparison

my\_str = my\_str.casefold()

# reverse the string

rev\_str = reversed(my\_str)

# check if the string is equal to its reverse

if list(my\_str) == list(rev\_str):

print("The string is a palindrome.")

else:

print("The string is not a palindrome.")

15. input\_string = "Data Science"

frequencies = {}

for char in input\_string:

if char in frequencies:

frequencies[char] += 1

else:

frequencies[char] = 1

print ("Per char frequency in '{}' is :\n {}".format(input\_string, str(frequencies)))

1. C
2. B
3. C
4. A
5. D
6. C
7. A
8. C
9. B,C
10. A,B