Q12

import re

def text\_match(text):

patterns = '\Bz\B'

if re.search(patterns, text):

return 'Found a match!'

else:

return('Not matched!')

print(text\_match("My sweet dog."))

print(text\_match("Python Exercises."))

output: Found a match!

Not matched!

Q13

import re

def text\_match(text):

patterns = '^[a-zA-Z0-9\_]\*$'

if re.search(patterns, text):

return 'Found a match!'

else:

return('Not matched!')

print(text\_match("Msu Bca."))

print(text\_match("Python"))

output;

Not matched!

Found a match!

Q14

Output: True

False

Q15

import re

ip = "216.08.004.196"

string = re.sub('\.[0]\*', '.', ip)

print(string)

output:

216.8.4.196

Q16

import re

def end\_num(string):

text = re.compile(r".\*[0-9]$")

if text.match(string):

return True

else:

return False

print(end\_num('abcdef'))

print(end\_num('abcdef6'))

False

True

Q17

import re

results = re.finditer(r"([0-9]{1,3})", "Exercises number 3, 12, 13,15 are important")

print("Number of length 1 to 3")

for n in results:

print(n.group(0))

output: Number of length 1 to 3

3

12

13

15

Q18

import re

patterns = [ 'fox', 'dog', 'horse' ]

text = 'The quick brown fox jumps over the lazy dog.'

for pattern in patterns:

print('Searching for "%s" in "%s" ->' % (pattern, text),)

if re.search(pattern, text):

print('Matched!')

else:

print('Not Matched!')

output: Searching for "fox" in "The quick brown fox jumps over the lazy dog." ->

Matched!

Searching for "dog" in "The quick brown fox jumps over the lazy dog." ->

Matched!

Searching for "horse" in "The quick brown fox jumps over the lazy dog." ->

Not Matched!

Q20

import re

text = 'Prince patel'

text =text.replace (" ", "\_")

print(text)

text =text.replace ("\_", " ")

print(text)

output: Prince\_patel

Prince patel

Q21

import re

# Input.

text = "we are the indians."

#find all the words starting with 'a' or 'e'

list = re.findall("[ae]\w+", text)

# Print result.

print(list)

output: ['are', 'ans']

Q22

import re

# Input.

text = "The following example creates an ArrayList with a capacity of 50 elements. Four elements are then added to the ArrayList and the ArrayList is trimmed accordingly."

for m in re.finditer("\d+", text):

print(m.group(0))

print("Index position:", m.start())

output: 50

Index position: 62

Q23

import re

text = 'Akshar patel, Paython exercises.'

print(re.sub("[ ,.]", ":", text))

output: Akshar:patel::Paython:exercises:

Q24

import re

text = 'Ai Project made by Deep'

print(re.findall(r"\b\w{3,5}\b", text))

output: ['Ai', ' Project ', ' made ', ' by ',’ Deep’]

Q25

import re

text = 'mera dost kutta hai.'

print(re.findall(r"\b\w{4,}\b", text))

output: ['mera', 'dost', 'kutta']

Q26

import re

text1 = lab2 Exercises '

print("Original string:",text1)

print("Without extra spaces:",re.sub(r'\s+', '',text1))

output: Original string: lab2 Exercises

Without extra spaces: lab2Exercises

Q27

import re

text1 = 'i/// am\*\*\* 21 years old. '

pattern = re.compile('[\W\_]+')

print(pattern.sub('', text1))

output:iam21yearsold

Q28

import re

text = "Deep Sharma"

print(re.findall('[A-Z][^A-Z]\*', text))

output: ['Deep', 'Sharma']

Q29

import re

text = "Rahul patel"

print("Original Text: ",text)

redata = re.compile(re.escape('prince'), re.IGNORECASE)

new\_text = redata.sub('RAHUL', 'Rahul patel')

print("Using RAHUL' replace Rahul")

print("New Text: ",new\_text)

OUTPUT: Original Text: Prince patel

Using 'PRINCE' replace PRINCE

New Text: PRINCE patel

Q30

def is\_decimal(num):

import re

dnumre = re.compile(r"""^[0-9]+(\.[0-9]{1,2})?$""")

result = dnumre.search(num)

return bool(result)

print(is\_decimal('123.11'))

print(is\_decimal('123.1'))

print(is\_decimal('123'))

print(is\_decimal('0.21'))

print(is\_decimal('123.1214'))

print(is\_decimal('3.124587'))

print(is\_decimal('e666.86'))

output: True

True

True

True

False

False

False