

write a program in python to factors set functions

= {'a', b', 'c', 'd', 'e'}

print (a)
a = {1, 2, 3, 4, 5}

print (a)

ASSIGNMENT : 31

write a program in python to perform set functions

=) # add

a= {1,2,5,4,7,8,9}

print ("added 10", a)

remove

a = {1,2,5,4,7,8,9} a·rumone(2)

print ("rumoved 2", a)

clear

a= \(\frac{1}{2}, \frac{5}{5}, \frac{4}{7}, \frac{7}{8}, \frac{9}{3}\)
a. clear ()

print ("cleared set", a)

difference

a = {1,21,5,4,7,8,9}

Output 31 %

added 10 { 1, 2, 4, 5, 7, 8, 9, 10 }

numoved 2 { 1, 4, 5, 7, 8, 9, 10 }

deviced set set()

a difference b { 1, 4, 8, 9, 21 }

b difference a { 80, 51, 3, 94 }

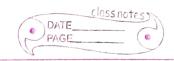
symmetric difference { 1, 3, 4, 8, 9, 80, 21, 94, 51 }

intersected set { 5, 7 }

union set { 1, 2, 3, 4, 5, 7, 8, 9, 80, 51, 94 }

subset false

superset True



b = {7,80,3,51,5,94}

print ("a difference b", a · difference (b))

print ("b difference a", b. difference (a))

symmetric Difference a = \{1, 21, 5, 4, \quad 7, 8, 9\}
b = \{7, 80, 3, 51, 5, 94\}

print ("symmetric_différence", a · symmetric_différence (b))

intersection

 $a = \{1, 2, 5, 4, 7, 8, 9\}$ $b = \{1, 2, 5, 4, 7, 8, 9\}$

b= {7,80,3,51,5,94} a= a. intersection (b)

print ("intersected set", a)

union

 $\alpha = \{1, 2, 5, 4, 7, 8, 9\}$

b= \ 7,80,3,51,5,94 \ 3

a = a · union (b)

puint ("union set", a)

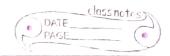
subset

a = {1,2,5,4,7,8,93

6= {7,80,3,51,5,94}

a= a. issubset (b)

print ("pubset", a)



```
# superset

a = {1,2,5,4,7,8,9}

b = {1,2,5,4,7,8,9}

a = a · issuperset (b)

print ("superset ", & a)
```

ASSIGNMENT: 32 Write a puggram in python to add two matrix

Output 32:

$$[2, 4, 6]$$
 $[8, 10, 12]$
 $[6, 8, 10]$



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ASSIGNMENT: 33
      write a program in python to multiply two matrix.
  \Rightarrow n = [[1,2,3]]
     result = [[0,0,0],
    for i in range (len(n)):
         for j in range (len (y)):
result [i][j]=n[i][j]* y[i][j]
    for r in result:
          print (r)
                 ASSIGNMENT: 34
   write a program in python to print factorial
\Rightarrow def fact (n):
        if n = = 1
           return n
        Else!
          return n x fact (n-1)
  n = fact (5)
  Brint (n)
```

Output 33:

[1,4,9] [16,25,36] [9,16,25]

Outbut 34



	DATEPAGE
	ASSIGNMENT: 35
	with argument 6 f return the result (lambda)
:	\Rightarrow n = lambda $a, b, c : a+b+c$
	Print (n (5,6,2))
	ASSIGNMENT: 36
	Write a program in python to print multiple arguments
	Write a program in python to print multiple arguments with argument a with argument b' and neturn result. (lambdel multiply)
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	n=lambda a, b: a x b
	pount (n (5,6))
	ASSIGNMENT : 37
	Write a program to print regulare Expression.
=)	import ri
	txt = "This roun in spain" n = re. findall (" is", txt)
	n=ve.findall ("is", txt)
	print (n)
	import re
	txt = "This main in spain"
	n = re search ("is", +xt)
	print (n)
	import ne
	Tet = " Ilis nain in spain"
- 11	

Output 35%

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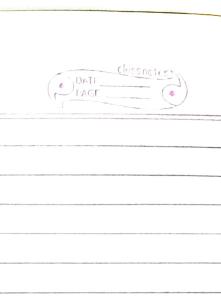
Output 36

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Output 37:

['is']

< re. Match object; span=(2,4), match = 'is'>
th IS rain in spain
['th', 'rain in spoin']



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import ru txt - " This rain in spain" n= re. split ("is", txt)

n= 4e. sub ("is", "15", txt)

ASSIGNMENT: 38 write a program in python to print exception fandling

=) (a) try: print (n)

print (n)

print ("an exception occurred")

except Name Error:

print ("Variable n is not defined.")

print (" something else went wrong")

=) (c) try:

print ("hello")

else:

print (" nothing went wrong")

Output 38;

-) (91) an exception occured

(b) Daviable n is not defined

(c) hello nothing went wrong