**PROGRAMS ON STRINGS**

**1. Write a python program to print any string multiple times in different lines?**

s='Welcome to python'

for i in range(5):

print(s)

**Output:**

Welcome to python

Welcome to python

Welcome to python

Welcome to python

Welcome to python

**2. Write a python program using multiple built-in functions in a single program along with the multiline comments?**

"""

Python program which consists multiple built-in functions

such as

print()

type()

id() etc....

"""

x=int(input("Enter value of x: "))

print('The value of x:',x)

print('The datatype of x:',type(x))

print('The memory location of x:',id(x))

**Output:**

Enter value of x: 10

The value of x: 10

The datatype of x: <class 'int'>

The memory location of x: 140734243525952

**3. Write a python program to find the no. of occurrences of a sub string?**

language='malayalam'

print(language.count('m',0,len(language)))

print(language.count('m',0,3))

print(language.count('a',0,5))

print(language.count('a',0,6))

**Output:**

2

1

2

3

**4. Write a python program to split the given string based on the delimiter?**

sname='akhila,bhuvan,charan,deepa,uma'

print(sname.split(','))

for i in sname.split(','):

print(i)

**Output:**

['akhila', 'bhuvan', 'charan', 'deepa', 'uma']

akhila

bhuvan

charan

deepa

uma

**5. Write a python program to evaluate whether the given string starts and ends with same mentioned sub string or not?**

s1='madam'

if s1.startswith('m')==s1.endswith('m'):

print("yes!!!!,the given string starts and ends with same substring")

else:

print("no!!!,the given string doesn't start and end with same substring")

**Output:**

yes!!!!,the given string starts and ends with same substring

**6. Write a python program to display the given string in reverse order?**

x="ravi"

print(x[::-1])

**Output:**

ivar

**7. Write a python program to make str1= ‘guido van rossum’, str2=’python’, after reversing the str2, make the first character as surname to the str1?**

s1="Guido Van Rossum"

s2="python"

s3=s2[::-1]

print(s3)

print(s3[0]+'. '+s1)

**Output:**

nohtyp

n. Guido Van Rossum

**8. Write a python program using slicing concept?**

city='Hyderabad'

print(city[0])

print(city[0:2])

print(city[3:])

print(city[::3])

print(city[0:len(city):2])

**Output:**

H

Hy

erabad

Heb

Hdrbd

**9. Write a python program to find the last name of the given cricketer name?**

criname='Sachin tendulkar'

print(criname.find(' '))

print(criname[criname.find(' '):])

print(criname[criname.find(' ')+1:])

print(criname[criname.find(' ')+1:].capitalize())

**Output:**

6

tendulkar

tendulkar

Tendulkar

**10. Write a python program to find the middle name of the given person name?**

pname='siva sankar prasad'

print(pname.index(' '))

print(pname.rindex(' '))

print(pname[pname.index(' ')+1:pname.rindex(' ')])

**Output:**

4

11

sankar

**11. Write a python program to print the variables which are enclosed in single and double triple quotes?**

highScore = """score + currentScore + pastScore

+ futureScore + credit + bonus +

creditinfo + random"""

Os\_Details = '''unix + linux + windows \

+ shell + perl + python \

c + java'''

print(highScore)

print(Os\_Details)

**Output:**

score + currentScore + pastScore

+ futureScore + credit + bonus +

creditinfo + random

unix + linux + windows + shell + perl + python c + java

**12. Write a python program to clear the python shell?**

>>> x=3

>>> x

3

>>> \_+2

5

>>> import os

>>> os.system('cls')

0

>>> \_+1

1

>>> x='python'

>>> x

'python'

>>> \_

'python'

>>> import os

>>> os.system('cls')

0

>>> \_

0

**PROGRAMS ON OPERATORS**

**13. Write a python program to perform basic arithmetic operations?**

a=10

b=3

print('The addition value is:',(a+b))

**Output:**

The addition value is: 13

**14. Write a python program which is used to display the basic arithmetic operations?**

x=int(input("Enter value of x: "))

y=int(input("Enter value of y: "))

print('Addition:', x+y)

print('Subtraction:', x-y)

print('Multiplication:',x\*y)

print('Division:',x/y)

**Output:**

Enter value of x: 10

Enter value of y: 20

Addition: 30

Subtraction: -10

Multiplication: 200

Division: 0.5

**15. Write a python program using arithmetic operators?**

a=10

b=5

print(a+b)

print(a-b)

print(a\*b)

print(a/b)

print(a\*\*b)

print(a//b)

print(a%b)

**Output:**

15

5

50

2.0

100000

2

0

**16. Write a python program to convert the binary value 1101 into decimal number system?**

x=input("Enter binary value:")

y=int(x,2)

print(y)

**Output:**

Enter binary value:1101

13

**17. Write a python program to make operations on conditional operators?**

x=1;y=2

print(x>y)

print(x>=y)

print(x<y)

print(x<=y)

print(x==y)

print(x!=y)

**Output:**

False

False

True

True

False

True

**18. Write a python program to perform operations on logical operators?**

x=0;y=10

print(x and y)

print(x or y)

print(not x)

print(not y)

a=1;b=2

print(a and b)

print(a or b)

**Output:**

0

10

True

False

2

1

**19. Write a python program to convert the given hexadecimal number into decimal?**

x=0x1c2

print(x)

or

x="1c2"

y=int(x,16)

print(y)

**Output:**

450

**20. Write a python program using membership operators?**

Tech=input("Enter technology: ")

lst=['oracle','testing','sql','python']

if Tech in lst:

print("True--- the given element is available in list")

else:

print("False----- the given element is not available in list")

**Output:**

Enter technology: python

True--- the given element is available in list

**PROGRAMS ON CONTROL STATEMENTS**

**21. Write a python program to show how indentation works?**

if True:

print ("I am IF")

print ("IF-1")

else:

print ("Something")

print ("Out Side of the IF block")

**Output**:

I am IF

IF-1

Out Side of the IF block

**22. Write a python program to display the range of values from 0 t0 9?**

r=range(10)

for i in r:

print(i)

**Output**:

0

1

2

3

4

5

6

7

8

9

**23. Write a python program to check the given number is Indian mobile number or not?**

mobno='9997775554'

if len(mobno)==10 and mobno.isdigit():

print('The given number is an Indian mobile number')

else:

print('The given number is not an Indian mobile number')

**Output**:

The given number is an Indian mobile number

**24. Write a python program to print output as below?**

**\***

**\*\***

**\*\*\***

**\*\*\*\***

**\*\*\*\*\***

**\*\*\*\*\*\***

**\*\*\*\*\*\*\***

**\*\*\*\*\*\*\*\***

**\*\*\*\*\*\*\*\*\***

**\*\*\*\*\*\*\*\*\*\***

for i in range(1,11):

print('\*'\*i)

**25. Write a python program to print the required mathematical table?**

n=8

for i in range(1,11):

print(n,'\*',i,'=',n\*i)

**Output**:

8 \* 1 = 8

8 \* 2 = 16

8 \* 3 = 24

8 \* 4 = 32

8 \* 5 = 40

8 \* 6 = 48

8 \* 7 = 56

8 \* 8 = 64

8 \* 9 = 72

8 \* 10 = 80

**26. Write a python program to print the given number is an even number or not?**

x=int(input("enter value for x:"))

if x%2==0:

print(x," is even number")

else:

print(x, "is not even number")

**Output**:

enter value for x:55

55 is not even number

**27. Write a python program to find the bigger of two numbers?**

x1=10;x2=20

if x1>x2:

print(x1, 'is bigger')

else:

print(x2, 'is bigger')

**Output**:

20 is bigger

**28. Write a python program to print the biggest of three numbers?**

x=int(input('enter value of x:'))

y=int(input('enter value of y:'))

z=int(input('enter value of z:'))

if x>y and x>z:

print(x,' is biggest number')

elif y>z and y>x:

print(y,' is biggest number')

else:

print(z,' is biggest number')

**Output**:

enter value of x:12

enter value of y:3

enter value of z:76

76 is biggest number

**29. Write a python program to print the sequence of numbers from 1 to 10?**

x=1

while x<=10:

print(x)

x=x+1

**Output**:

1

2

3

4

5

6

7

8

9

10

**30. Write a python program to print only even numbers from 1 to 20?**

for i in range(1,21):

if i%2==0:

print(i,'is an even number')

**Output**:

2 is an even number

4 is an even number

6 is an even number

8 is an even number

10 is an even number

12 is an even number

14 is an even number

16 is an even number

18 is an even number

20 is an even number

**31. Write a python program to print the even value numbers using while loop?**

x=1

while x<=5:

print(x\*2)

x=x+1

**Output**:

2

4

6

8

10

**32. Write a python program to print each character in sequential order with index of the given string?**

str='python'

for i in range(len(str)):

print(str[i],':',i)

**Output**:

p : 0

y : 1

t : 2

h : 3

o : 4

n : 5

**33. Write a python program to print sum of the given elements of a list?**

n=[10,20,30,40,50]

total=0

for i in n:

total+=i

print("Total value of elements is :",total)

**Output**:

Total value of elements is : 150

**34. Write a python program to print the output as below?**

**p**

**py**

**pyt**

**pyth**

**pytho**

**python**

s="python"

for i in range(1,len(s)+1):

print(s[0:i])

**35. Write a python program using continue statement?**

for i in range(1,11):

if i==5:

continue

print(i)

**Output**:

1

2

3

4

6

7

8

9

10

**36. Write a python program to find all the element indexes along with the values?**

t=(-1,0,25,'Ravi','a',76.1)

for i in t:

print('Index no. is',t.index(i),':',i)

**Output**:

Index no. is 0 : -1

Index no. is 1 : 0

Index no. is 2 : 25

Index no. is 3 : Ravi

Index no. is 4 : a

Index no. is 5 : 76.1

**37. Write a python program to display the sequence of numbers from 0 to 10 using range?**

for i in range(11):

print(i)

**Output**:

0

1

2

3

4

5

6

7

8

9

10

**38. Write a python program to display only even numbers from 0 to 20?**

for i in range(0,21,2):

print(i)

**Output**:

0

2

4

6

8

10

12

14

16

18

20

**39. Write a python program to display the numbers from 10 to 100 with step size10?**

for i in range(10,101,10):

print(i)

**Output**:

10

20

30

40

50

60

70

80

90

100

**40. Write a python program to display the reverse order of numbers from 5 to 1 using range?**

for i in range(5,0,-1):

print(i)

**Output**:

5

4

3

2

1

**41. Write a python program to display the required range of numbers?**

x,y=int(input("Enter SP: ")),int(input("Enter EP: "))

for i in range(x,y):

print(i)

**Output**:

Enter SP: 21

Enter EP: 26

21

22

23

24

25

**42. Write a python program to print the sequence of numbers from 1 to 3 continuously 2 times?**

for i in range(1,3):

for j in range(1,4):

print(j)

**Output**:

1

2

3

1

2

3

**PROGRAMS ON COLLECTIONS**

**43. Write a python program to print the list of elements in different lines?**

l=["ravi","keerthi","lasya","virat"]

for i in l:

print(i)

**Output:**

ravi

keerthi

lasya

virat

**44. Write a python program to print the list elements in a same line separating by a special character?**

l=['a','b','c','d','e']

for i in l:

print(i,end='@')

**Output:**

a@b@c@d@e@

**45. Write a python program to display the given list of elements into gmail id's?**

Sname=['uma','abhi','deepa','goutham']

for i in Sname:

print(i.lower()+'@gmail.com')

**Output:**

uma@gmail.com

abhi@gmail.com

deepa@gmail.com

goutham@gmail.com

**46. Write a python program to eliminate the duplicate elements of the list?**

a=[10,23,4.5,-67,10,10]

x=set(a)

print(x)

print(type(x))

**Output:**

{23,-67,4.5,10}

<class ‘set’>

**47. Write a python program to find the occurrence position of the element, when it is appeared multiple times in a given list?**

l=['uma','ravi','lasya','uma','kohli','anil','uma','rahul']

s='uma'

for i in range(len(l)):

if s==l[i]:

print('the position is: ',i+1)

**Output:**

the position is: 1

the position is: 4

the position is: 7

**48. Write a python program to find the minimum substrings (character) of the given list of elements?**

l=['chennai','bengalore','kochi','python']

for i in l:

print(min(i))

**Output:**

a

a

c

h

or

l=['chennai','bengalore','kochi','python']

for i in l:

print(min(i),'index position is:',i.find(min(i)))

**Output:**

a index position is: 5

a index position is: 4

c index position is: 2

h index position is: 3

**49. Write a python program to display all the elements of the given list, without [] in a same line by separating them by space?**

l=["apple","bat","cat"]

for i in l:

print(i,end=' ')

**Output:**

apple bat cat

**50. Write a python program to sort the given list of string elements in ascending order?**

S=[]

n=int(input("how many elements has to be stored in list: "))

for i in range(n):

print("Enter string:")

S.append(input())

print("List of elements before sort is:",S)

print('After Sorting list of elements are: ',sorted(S))

**Output:**

how many elements has to be stored in list: 3

Enter string:

python

Enter string:

logics

Enter string:

code

List of elements before sort is: ['python', 'logics', 'code']

After Sorting list of elements are: ['code', 'logics', 'python']

**51. Write a python program to find the summation of the given list of elements?**

l=[10,20,30,40,50]

s=0

for i in l:

s=s+i

print(s)

**Output:**

10

30

60

100

150

**52. Write a python program to print the elements of a list in different lines and print all the elements of the list in same line with spaces and without single quotes for the elements?**

l=["hyderabad","bangalore","vizag","kerala","python"]

for i in l:

print(i)

**Output:**

hyderabad

bangalore

vizag

kerala

python

or

l=["hyderabad","bangalore","vizag","kerala","python"]

for i in l:

print(i,end=' ')

**Output:**

hyderabad bangalore vizag kerala python

**53. Write a python program to print the given elements of the list in a same line?**

lst=['akhila','bhuwan','charan','deepak','elgar']

for i in lst:

print(i,end='')

**Output:**

akhilabhuwancharandeepakelgar

**PROGRAMS ON FUNCTIONS**

**54 .Write a python user defined function which is used to get the first name of the given person?**

def firstname(s):

print(s[0:s.find(' ')])

**Execution:**

>>> firstname('Deepak Reddy')

**Output:**

Deepak

**55. Write a python user defined function without arguments?**

def display():

print("Welcome to Hyderabad")

**Execution:**

>>>display()

**Output:**

Welcome to Hyderabad

**56. Write a python user defined function without arguments, which returns multiple values using print()?**

def display():

print("Welcome to Python class")

print("Python is a high level programming language")

print("Python is the trending technology nowadays")

**Execution:**

>>> display()

**Output:**

Welcome to Python class

Python is a high level programming language

Python is the trending technology nowadays

**57. Write a python user defined function without arguments, which doesn't return a value?**

def Marks():

pass

**Execution:**

>>> Marks()

**58. Write a python user defined function with a single argument, which returns a value using print()?**

def isevenodd(n):

if n%2==0:

print(n,'is even')

else:

print(n,'is odd')

**Execution:**

>>> isevenodd(10)

**Output:**

10 is even

>>> iseven odd(11)

**Output:**

11 is odd

**59. Write a python user defined function using return statement?**

def print():

return "Hai...Hello...!!!"

**Execution:**

>>> print()

**Output:**

'Hai...Hello...!!!'

**60. Write a python user defined function using multiple formal parameters?**

def mathaddsub (x, y):

return x+y, x-y

**Execution:**

>>> mathaddsub(1,2)

**Output:**

(3, -1)

**61. Write a python user defined function which allows input() to formal parameters**

def mathaddsub(x=int(input("Enter value of x: ")),y=int(input("Enter value of y: "))):

return x+y, x-y

**Execution:**

Enter value of x: 12

Enter value of y: 2

>>> mathaddsub(x=12,y=2)

**Output:**

(14, 10)

**62. Write a python user defined function which is used to calculate simple interest?**

def simint(p,t,r):

return p\*t\*r/100

**Execution:**

>>> simint(10000,2,2)

**Output:**

400.0

**63. Write a python program which allows assigning a user defined function to variable?**

def display():

return 'Hello Hyderabad'

**Execution:**

#assigning user defined function to a variable

>>> x=display()

>>> x

**Output:**

'Hello Hyderabad'

>>> print(x)

**Output:**

Hello Hyderabad

**64. Write a python program to create nested user defined function (defining a function inside another function)?**

def fun1(s):

def fun2():

return 'how are you??'

x=s+fun2()

return x

**Execution:**

>>> fun1('Hai...!!!')

**Output:**

'Hai...!!!how are you??'

**65. Write a python program where a user defined function allows another user defined function as an argument?**

def fun1(x):

print('Studying B.Tech')

def fun2():

print(input('Enter name of student: '))

**Execution:**

>>> fun1(fun2())

Enter name of student: Sarala

**Output:**

Sarala

Studying B.Tech

**66. Write a python program to create a user defined function which returns another user defined function?**

def fun1():

return 'Welcome to Hyderabad'

def fun2():

return fun1()

**Execution:**

>>> fun2()

**Output:**

'Welcome to Hyderabad'

**67. Write a program to show python functions use reference of objects?**

def valuedisplay():

x=10

print(x,':',id(x))

x=15

print(x,':',id(x))

**Execution:**

>>> valuedisplay()

**Output:**

10 : 140716498212160

15 : 140716498212320

**68. Write a python user defined function using local variable.**

def myfunction():

a=1

print(a)

**Execution:**

>>> myfunction()

1

**69. Write a python user defined function using global variable?**

a=1 #Global variable

def myfunction():

print(a)

b=2 # local variable

print(b)

**Execution:**

>>> myfunction()

**Output:**

1

2

>>> print(a)

**Output:**

1

>>> print(b)

**Output:**

NameError: name 'b' is not defined

**70. Write a python program to create a lambda function to display square of the given value?**

v=lambda x : x\*x

print(v(5))

print(v(2)\*2)

print(type(v))

**Output:**

25

8

<class 'function'>

**71. Write a lambda function to display the bigger of two numbers?**

>>> r=lambda x,y : x if x>y else y

>>> r(1,2)

**Output:**

2

>>> r(-4,5)

**Output:**

5

**72. Write a lambda function for addition of 2 numbers?**

>>>a=lambda x,y : x+y

**Execution:**

>>> a

**Output:**

<function <lambda> at 0x00000268DC1CCBF8>

>>> a(10,20)

**Output:**

30

**73. Write a python program to filter the elements of the given sequence based on the result of a function?**

l=[10,5,12,81,96,120,69]

def iseven(x):

if x%2==0:

return True

y= list(filter(iseven,l))

print(y)

or

lst=[10,5,12,81,96,120,69]

x=list(filter(lambda x:x%2==0,lst))

print(x)

**Output:**

[10, 12, 96, 120]

**74. Write a python program to get the square value of the elements of the given sequence based on the result of a function using map()?**

lst=[2,3,4,5,6]

y=list(map(lambda x:x\*x, lst))

print(y)

or

lst=[2,3,4,5,6]

def square(x):

return x\*x

y=list(map(square,lst))

print(y)

**Output:**

[4, 9, 16, 25, 36]

**75. Write a python program to get the product of the given elements of the sequence using reduce()?**

from functools import\*

lst=[1,2,3,4,5]

x=reduce(lambda x,y:x\*y,lst)

print(x)

**Output:**

120

**76. Write a python program to get the summation of the given elements of the sequence using reduce()?**

from functools import\*

lst=[10,20,30,40]

x= reduce(lambda x,y:x+y,lst)

print(x)

or

from functools import\*

lst=(10,20,30,40)

def add(x,y):

return x+y

x=reduce(add,lst)

print(x)

**Output:**

100

**PROGRAMS ON MODULES**

**77. Write a python program to find the area of a circle?**

import math

r=1.5

area=math.pi\*r\*\*2

print('The area of circle is: ',area)

**Output:**

The area of circle is: 7.0685834705770345

**78. Write a python program to validate the given variable has infinite value or not?**

import math

x=float('inf')

if x==math.inf:

print('x value is infinite')

**Output:**

x value is infinite

**79. Write a python program to display the next 10 days dates?**

from datetime import date,timedelta

d=date.today()

for i in range(1,11):

print(d+timedelta(days=i))

**Output:**

2018-10-18

2018-10-19

2018-10-20

2018-10-21

2018-10-22

2018-10-23

2018-10-24

2018-10-25

2018-10-26

2018-10-27

**80. Write a python program to display the next 10 days dates into below format.(For example, dd-mm-yyyy)?**

from datetime import date,timedelta

d=date.today()

for i in range(1,11):

x=d+timedelta(days=i)

print(x.strftime("%d-%m-%Y"))

**Output:**

18-10-2018

19-10-2018

20-10-2018

21-10-2018

22-10-2018

23-10-2018

24-10-2018

25-10-2018

26-10-2018

27-10-2018

**81. Write a python program to display the next 10 days including today?**

from datetime import date,timedelta

d=date.today()

for i in range(0,10):

x=d+timedelta(days=i)

print(x.strftime("%d-%m-%Y"))

**Output:**

17-10-2018

18-10-2018

19-10-2018

20-10-2018

21-10-2018

22-10-2018

23-10-2018

24-10-2018

25-10-2018

26-10-2018

**82. Write a python program to generate the datetime by passing 6 arguments as input values?**

from datetime import datetime

x=datetime(2018,1,1,10,30,45)

print(x)

y=x.strftime("%d-%m-%Y %I:%M:%S %p")

print(y)

**Output:**

2018-01-01 10:30:45

01-01-2018 10:30:45 AM

**83. Write a python program to create date using multiple variables?**

from datetime import date

d,m,y=10,2,2018

x=date(y,m,d)

print(x)

**Output:**

2018-02-10

**84. Write a python program to display the specified months of a calendar for the given year?**

import calendar

l=[1,3,9]

for i in l:

print(calendar.month(2018,i))

**Output:**

January 2018

Mo Tu We Th Fr Sa Su

1 2 3 4 5 6 7

8 9 10 11 12 13 14

15 16 17 18 19 20 21

22 23 24 25 26 27 28

29 30 31

March 2018

Mo Tu We Th Fr Sa Su

1 2 3 4

5 6 7 8 9 10 11

12 13 14 15 16 17 18

19 20 21 22 23 24 25

26 27 28 29 30 31

September 2018

Mo Tu We Th Fr Sa Su

1 2

3 4 5 6 7 8 9

10 11 12 13 14 15 16

17 18 19 20 21 22 23

24 25 26 27 28 29 30

**85. Write a python program to read the year from input method and check the given year is a leap year or not?**

import calendar

year=int(input("Enter value of year: "))

if calendar.isleap(year)==True:

print(year,'is a leap year')

else:

print(year,'is a not leap year')

**Output:**

Enter value of year: 2018

2018 is not a leap year

**86. Write a python program to find the total difference between two given date values into days?**

d,m,y=1,1,2017

from datetime import date

d1=date(y,m,d)

print(d1)

d2=date.today()

print(d2)

d=d2-d1

print(d)

**Output:**

2017-01-01

2018-10-09

646 days, 0:00:00

**87. Write a python program to compare dates?**

from datetime import date,timedelta

d2=date.today()

d3=date.today()+timedelta(days=1)

if d2==d3:

print("Both given dates are same")

else:

print("Both given dates are not same")

**Output:**

Both given dates are not same

**88. Write a user defined module which has multiple functions?**

def fname(s):

return s[0:s.find(' ')]

def lname(s):

return s[s.rfind(' ')+1:]

def mname(s):

return s[s.find(' ')+1:s.rfind(' ')]

# save the above file by name **name.py** then it will be considered as a module name

**Execution:**

>>> import name

>>> name.fname('Sachin Ramesh Tendulkar')

**Output:**

'Sachin'

>>> name.lname('Sachin Ramesh Tendulkar')

**Output:**

'Tendulkar'

>>> name.mname('Sachin Ramesh Tendulkar')

**Output:**

'Ramesh'

**89. Write a python program to change the current working directory?**

>>> import os

>>> os.getcwd()

**Output:**

'C:\\Users\\RS5\\AppData\\Local\\Programs\\Python\\Python37'

>>> os.chdir('jani')

>>> os.getcwd()

**Output:**

'C:\\Users\\RS5\\AppData\\Local\\Programs\\Python\\Python37\\jani'

**90. Write a python program to print the last day of the given month of a year?**

import calendar

x=int(input('Enter year:'))

y=int(input('Enter month:'))

print(calendar.monthrange(x,y)) # getting range of days

print(calendar.monthrange(x,y)[1]) #getting last day of a month

**Output:**

Enter year:2018

Enter month:10

(0, 31)

31

**91. Write a python program to print the calendar of the given month of a year?**

import calendar

x=int(input('Enter year:'))

y=int(input('Enter month:'))

cal = calendar.month(x, y)

print (cal)

**Output:**

Enter year:2018

Enter month:10

October 2018

Mo Tu We Th Fr Sa Su

1 2 3 4 5 6 7

8 9 10 11 12 13 14

15 16 17 18 19 20 21

22 23 24 25 26 27 28

29 30 31

**92. Write a python program to perform operations on time module using ticks?**

import time # This is required to include time module.

ticks = time.time()

print ("Number of ticks since 12:00am, January 1:", ticks)

**Output:**

Number of ticks since 12:00am, January 1: 1539060463.989586

**93. Write a python program to get the localtime using time module?**

import time # This is required to include time module.

print (time.localtime())

**Output:**

time.struct\_time(tm\_year=2018, tm\_mon=10, tm\_mday=9, tm\_hour=10, tm\_min=16, tm\_sec=56, tm\_wday=1, tm\_yday=282, tm\_isdst=0)

**94. Write a python program to get required time format of the localtime using time module?**

import time

localtime = time.asctime( time.localtime() )

print ("Local current time:", localtime)

**Output:**

Local current time: Wed Oct 17 16:12:43 2018

**95. Write a python program to get the time zone?**

import time

print ("time.altzone : ", time.altzone)

**Output:**

time.altzone : -23400

**96. Write a python program to get the current CPU time?**

import time

def procedure():

time.sleep(10)

# measure process time

t = time.perf\_counter()

procedure()

print (time.perf\_counter()-t, "seconds process time")

# measure wall time

t0 = time.time()

procedure()

print (time.time() - t0, "seconds wall time")

**Output:**

9.999710987 seconds process time

10.000004291534424 seconds wall time

**97. Write a python program to get asctime?**

import time

t = (2018, 10, 15, 10, 13, 38,1,48,0)

d = time.mktime(t)

print ("Time: %f" % d)

print ("asctime: %s" % time.asctime(time.localtime(d)))

**Output:**

Time: 1539578618.000000

asctime: Mon Oct 15 10:13:38 2018

**98. Write a python program to perform sleep operation?**

import time

print ("Start : %s" %time.ctime())

time.sleep( 5 ) # Its wait for 5 sec and then it will execute below print function

print ("End : %s" %time.ctime())

**Output:**

Start : Wed Oct 17 16:19:43 2018

End : Wed Oct 17 16:19:48 2018

**99. Write a python program to get the time in the required format?**

import time

t = (2019, 6, 31, 10, 39, 45, 1, 48, 0)

t = time.mktime(t)

print (time.strftime("%b %d %Y %H:%M:%S", time.localtime(t)))

**Output:**

Jul 01 2019 10:39:45

**100. Write a python program to get the time using strptime()?**

import time

struct\_time = time.strptime("30 12 2018", "%d %m %Y")

print("tuple:", struct\_time)

**Output:**

tuple: time.struct\_time(tm\_year=2018, tm\_mon=12, tm\_mday=30, tm\_hour=0, tm\_min=0, tm\_sec=0, tm\_wday=6, tm\_yday=364, tm\_isdst=-1)

**101. Write a python program to perform operations on time using distinct methods?**

import time

print ("Time : ", time.time())

print ("localtime : ",time.localtime( time.time() ))

print ("formatted time : ",time.asctime( time.localtime(time.time()) ))

**Output:**

Time : 1539773571.2850184

localtime : time.struct\_time(tm\_year=2018, tm\_mon=10, tm\_mday=17, tm\_hour=16, tm\_min=22, tm\_sec=51, tm\_wday=2, tm\_yday=290, tm\_isdst=0)

formatted time : Wed Oct 17 16:22:51 2018

**102. Write a python program to print the calendar for the given year?**

import calendar

x=int(input('Enter year: '))

print(calendar.calendar(x))

**PROGRAMS ON EXCEPTION HANDLING**

**103. Write a python built-in exception program to handle "FileNotFoundError" exception?**

try:

f=open('abc.txt','r')

except FileNotFoundError:

print("There is no file by name abc")

else:

print("abc file exists in the current directory")

**Output:**

There is no file by name abc

**104. Write a python program to handle multiple exceptions?**

#we can have multiple except blocks followed by single try block

import math as m

x=int(input('Enter value of x: '))

y=int(input('Enter base:'))

try:

z=m.log(x,y)

print(z)

except ValueError:

print('Logarithm does not allow input 0')

except ZeroDivisionError:

print('Logarithm does not allow 0 division')

**Execution:**

Enter value of x: 12

Enter base:2

**Output:**

3.5849625007211565

Enter value of x: 4

Enter base:0

**Output:**

Logarithm does not allow input 0

**105. Write a python program to handle multiple exceptions using a dynamic list?**

l=[]

x=int(input('Enter how many elements do you want to insert:'))

for i in range(x):

v=input("enter value : ")

l.append(v)

print(l,len(l))

try:

i=int(input("enter index value : "))

print("value",l[i]) #two excepts can be written but it executes, if the first error isn’t occurred

#then second executes or else we can write error in function and can be called #one after the other again by writing try except, one can’t be written without other in a block

except (NameError, IndexError):

print('name error')

print('index error')

**Output:**

Enter how many elements do you want to insert: 3

enter value : a

enter value : b

enter value : c

['a', 'b', 'c'] 3

enter index value : 4

name error

index error