CHAPTER 1, 2 & 3 PYTHON REVISION TOUR I & II, WORKING WITH FUNCTIONS

ERROR FINDING QUESTIONS

Q1. Find error in the following code(if any) and correct code by rewriting code and underline the correction;-

```
x= int("Enter value of x:")
for in range [0,10]:
    if x=y
print( x + y)
    else:
print( x-y)
```

Q2. Rewrite the following program after finding and correcting syntactical errors and underlining it.

```
a, b = 0
if (a = b)
a +b = c
print(z)
```

Q3. Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code.

```
250 = Number
WHILE Number<=1000:
    if Number=>750
        print (Number)
        Number=Number+100
    else
        print( Number*2)
Number=Number+50
```

Q4. Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code.

Q5. Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code.

```
25=Val
for I in the range(0,Val)
if I%2==0:
print(I+1)
Else:
print (I-1
```

Q6. Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code.

```
STRING=""WELCOME
NOTE""
for S in range[0,8]:
    print (STRING(S))
```

Q7. Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code.

```
a=int{input("ENTER FIRST NUMBER")}
b=int(input("ENTER SECOND NUMBER"))
c=int(input("ENTER THIRD NUMBER"))
if a>b and a>c
    print("A IS GREATER")
if b>a and b>c:
    Print(" B IS GREATER")
if c>a and c>b:
    print(C IS GREATER)
```

Q8. Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code.

```
i==1
a=int(input("ENTER FIRST NUMBER"))
FOR i in range[1, 11];
  print(a,"*=", i ,"=",a * i)
```

Q9. Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code.

```
a="1"
while a>=10:
print("Value of a=",a)
a=+1
```

Q10. Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code.

```
Num=int(rawinput("Number:"))
sum=0
for i in range(10,Num,3)
Sum+=1
if i%2=0:
    print(i*2)
    Else:
print(i*3 print Sum)
```

Q11. Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code.

Q12. Write the modules that will be required to be imported to execute the following code in Python.

Q13. Observe the following Python code very carefully and rewrite it after removing all syntactical errors with each correction underlined.

```
DEF execmain():
  x = input("Enter a number:")
  if (abs(x)=x):
    print ("You entered a positive number")
  else:
  x=*-1
    print "Number made positive:"x
  execmain()
```

Q14. Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code

Q15. Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code.

```
30=To
for K in range(0,To)
IF k%4==0:
print (K*4)
else
print (K+3)
```

OUTPUT FINDING QUESTIONS

Q1. Find output generated by the following code:

```
p=10
q=20
p*=q//3
q+=p=q**2
print(p, q)
```

```
Q2. Find output generated by the following code:
```

```
String Str="Computer"
Str[-4:]
Str*2
```

Q3. Find out the output of the Following -

```
x=20
x=x+5
x=x-10
print (x)
x, y=x-1,50
print (x, y)
```

Q4. Find out the output of the Following -

```
for a in range(3,10,3):
    for b in range(1,a,2):
        print(b, end=' ')
    print()
```

Q5. FIND OUTPUT OF FOLLOWING

```
x=10
y=5
for i in range(x-y*2):
    print("%",i)
```

Q6. Find output generated by the following code:

```
x="one"
y="two"
c=0
while c<len(x):
    print(x[c],y[c])
    c=c+1</pre>
```

Q7. Find output generated by the following code:

```
for i in range(-1,7,2):
for j in range(3):
    print(i,j)
```

Q8. Find output generated by the following code:

```
string="aabbcc"
count=3
while True:
    if string[0]=='a':
        string=string[2:]
    elif string[-1]=='b':
        string=string[:2]
    else:
        count+=1
        break
print(string)
print(count)
```

Q9. Find output generated by the following code:

```
x="hello world"
print(x[:2],x[:-2],x[-2:])
print(x[6],x[2:4])
print(x[2:-3],x[-4:-2])
```

```
Q10. Find and write the output of the following python code:

Msg1="WeLcOME"

Msg2="GUeSTs"

Msg3=""
```

for I in range(0,len(Msg2)+1): if Msg1[I]>="A" and Msg1[I]<="M": Msg3=Msg3+Msg1[I]

elif Msg1[I]>="N" and Msg1[I]<="Z": Msg3=Msg3+Msg2[I]

else:

Msg3=Msg3+"*" print Msg3

Q11. Find and write the output of the following python code:

def Changer(P,Q=10):
P=P/Q
Q=P%Q
print P,"#",Q
return P
A=200
B=20

A=Changer(A,B) print A,"\$",B

B=Changer(B)

print A,"\$",B

A=Changer(A)

print A,"\$",B

Q12. Find and write the output of the following python code:

Q13. Find and write the output of the following python code:

Text1="AISSCE 2018"

Text2=""
I=0
while I<len(Text1):
 if Text1[I]>="0" and Text1[I]<="9":
 Val = int(Text1[I])
 Val = Val + 1
 Text2=Text2 + str(Val)
elif Text1[I]>="A" and Text1[I] <="Z":
 Text2=Text2 + (Text1[I+1])
else:
 Text2=Text2 + "*"
 I=I+1
print Text2

Q14. Find and write the output of the following python code:

```
TXT = ["20","50","30","40"]
CNT = 3
TOTAL = 0
for C in [7,5,4,6]:
    T = TXT[CNT]
    TOTAL = float (T) + C
    print TOTAL
    CNT-=1
```

Q15. Find output generated by the following code:

```
line = "I'll come by then."
eline = ""
for i in line:
    eline += chr(ord(i)+3)
print(eline)
```

Q16. Find output generated by the following code:

```
line = "What will have so will"
L = line.split('a')
for i in L:
    print(i, end=' ')
```

Q17. Find output generated by the following code:

```
p=5/2
q=p*4
r=p+q
p+=p+q+r
q-=p+q*r
print(p,q,r)
```

Q18. Find output generated by the following code:

```
a=(2+3)**3-6/2
b=(2+3)*5//4+(4+6)/2
c=12+(3*4-6)/3
d=12%5*3+(2*6)//4
print(a, b, c, d)
```

Q19. Find the output of the following:

```
def main():
    Moves=[11, 22, 33, 44]
    Queen=Moves
Moves[2]+=22
L=Len(Moves)
for i in range (L)
    print "Now@", Queen[L-i-1], "#", Moves [i]
```

Q20. Find the output of the following

```
L1 = [100,900,300,400,500]

START = 1

SUM = 0

for C in range(START,4):

    SUM = SUM + L1[C]

print(C, ":", SUM)

    SUM = SUM + L1[0]*10

print(SUM)
```

```
Q21. Find and write the output of the following python code:
      def fun(s):
      k=len(s) m=" "
      for i in range(0,k): if(s[i].isupper()):
             m=m+s[i].lower()
      elif s[i].isalpha():
             m=m+s[i].upper()
      else:
             m=m+'bb' print(m)
      fun('school2@com')
Q22. Find the output of the give program:
      def Change(P ,Q=30):
             P=P+Q
             Q=P-Q
             print( P,"#",Q)
             return (P)
      R=150
      S=100
      R=Change(R,S)
      print(R,"#",S)
      S=Change(S)
Q23. Find the output of the give program:
      x = "abcdef"
      i = "a"
      while i in x:
             print(i, end = " ")
                        QUESTIONS BASED ON TUPLE
      Find the output of following codes
   1. t1=("sun","mon","tue","wed")
          a. print(t1[-1])
   2. t2=("sun","mon","tue","wed","thru","fri")
          for i in range (-6,2):
                  print(t2[i])
   3. t3=("sun","mon","tue","wed","thru","fri")
          if "sun" in t3:
             for i in range (0,3):
                    print(t2[i])
          else:
             for i in range (3,6):
                    print(t2[i])
   4. t4=("sun", "mon", "tue", "wed", "thru", "fri")
          if "sun" not in t4:
             for i in range (0,3):
                    print(t4[i])
          else:
             for i in range (3,6):
                    print(t4[i])
```

```
5. t5=("sun",2,"tue",4,"thru",5)
          if "sun" not in t4:
              for i in range (0,3):
                     print(t5[i])
          else:
              for i in range (3,6):
                     print(t5[i])
   6. t6=('a','b')
       t7=('p','q')
       t8=t6+t7
       print(t8*2)
   7. t9=('a','b')
       t10=('p','q')
       t11=t9+t10
       print(len(t11*2))
   8. t12=('a','e','i','o','u')
       p, q, r, s, t=t12
       print("p= ",p)
       print("s= ",s)
       print("s + p", s + p)
   9. t13=(10,20,30,40,50,60,70,80)
       t14=(90,100,110,120)
       t15=t13+t14
       print(t15[0:12:3])
Q2.
       Find the errors
   1. t1=(10,20,30,40,50,60,70,80)
       t2=(90,100,110,120)
       t3=t1*t2
       Print(t5[0:12:3])
   2. t1=(10,20,30,40,50,60,70,80)
       i=t1.len()
       Print(T1,i)
   3. t1=(10,20,30,40,50,60,70,80)
       t1[5]=55
       t1.append(90)
       print(t1,i)
   4. t1=(10,20,30,40,50,60,70,80)
       t2=t1*2
       t3=t2+4
       print t2,t3
   5. t1=(10,20,30,40,50,60,70,80)
       str=""
       str=index(t1(40))
       print("index of tuple is ", str)
       str=t1.max()
       print("max item is ", str)
```

LIST BASED QUESTION

Q1. Give the output of the following code:-

```
list=['p','r','o','b','l','e','m']
list[1:3]=[]
print(list)
list[2:5]=[]
print(list)
```

Q2. Give the output of the following code:-

```
l1=[13,18,11,16,13,18,13]

print(l1.index(18))

print(l1.count(18))

l1.append(l1.count(13))

print(l1)
```

Q3. Find the error in following code. State the reason of the error.

```
aLst = { 'a':1,' b':2, 'c':3 }
print (aLst['a','b'])
```

Q4. Find the error in following code. State the reason of the error.

```
list1 =[1998, 2002, 1997, 2000]
list2 =[2014, 2016, 1996, 2009]
print"list1 + list 2 = : ", list1 +list2  #statement 1
print"list1 * 2 = : ", list1 *2  #statement 2
```

Q5. What is the output of the following:

```
list1 = [1, 2, 3, 4, 5]
list2 = list1
list2[0] = 0;
print("list1 = : ", list1)
```

Q6. What is the output of the following:

```
data =[2, 3, 9]

temp =[[x forx in[data]] forx inrange(3)]

print(temp)

a) [[[2, 3, 9]], [[2, 3, 9]], [[2, 3, 9]]] b) [[2, 3, 9], [2, 3, 9], [2, 3, 9]]

c) [[[2, 3, 9]], [[2, 3, 9]]] d) None of these
```

Q7. What is the output of the following:

```
Temp = ['Geeks', 'for', 'Geeks']

arr = [i[0].upper() fori intemp]

print(arr)

a) ['G', 'F', 'G']

b) ['GEEKS']

c) ['GEEKS', 'FOR', 'GEEKS']

d) Compilation error
```

Q8. What will be the output?

```
    d1 ={"john":40, "peter":45}
    d2 ={"john":466, "peter":45}
    d1 > d2
    TRUE
    ERROR
    NONE
```

Q9. What will be the error of the following code Snippet?

```
Lst =[1,2,3,4,5,6,7,8,9]
Lst[::2]=10,20,30,40,50,60
Print[Lst]
```

Q10. Find the error in following code. State the reason of the error

```
aLst={'a':1,'b':2,'c':3}
print(aLst['a','b'])
```

Q11. What Will Be The Output Of The Following Code Snippet?

```
a =[1,2,3,4,5]
print(a[3:0:-1])
A. Syntax error
B. [4, 3, 2]
D. [4, 3, 2, 1]
```

Q12. What Will Be The Output Of The Following Code Snippet?

```
fruit list1 = ['Apple', 'Berry', 'Cherry', 'Papaya']
fruit list2 = fruit list1
fruit_list3 = fruit_list1[:]
fruit_list2[0] = 'Guava'
fruit_list3[1] = 'Kiwi'
sum = 0
for ls in (fruit_list1, fruit_list2, fruit_list3):
  if ls[0] == 'Guava':
    sum += 1
 if ls[1] == 'Kiwi':
                                        A. 22
                                                                B. 21
    sum += 20
                                        C. 0
                                                                D. 43
print (sum)
```

Q13. What Will Be The Output Of The Following Code Snippet?

```
a = {(1,2):1,(2,3):2}
print(a[1,2])
A. Key Error
B. 1
C. {(2,3):2}
D. {(1,2):1}
```

Q14. What Will Be The Output Of The Following Code Snippet?

```
my_dict = {}
my_dict[1] = 1
my_dict['1'] = 2
my_dict[1.0] = 4
sum = 0
for k in my_dict:
    sum += my_dict[k]
print (sum)
```

A. 7	B. Syntax error
C. 3	D. 6

Q15. What Will Be The Output Of The Following Code Snippet?

```
my_dict = {}

my_dict[(1,2,4)] = 8

my_dict[(4,2,1)] = 10

my_dict[(1,2)] = 12

sum = 0

for k in my_dict:
    sum += my_dict[k]

print (sum)
print(my_dict)

A. Syntax error

B. 30

{(1, 2): 12, (4, 2, 1): 10, (1, 2, 4): 8}

C. 47

{(1, 2): 12, (4, 2, 1): 10, (1, 2, 4): 8}

D. 30

{[1, 2]: 12, [4, 2, 1]: 10, [1, 2, 4]: 8}
```

OUTPUT AND ERROR BASED QUESTIONS ON FUNCTIONS IN PYTHON

Q. Identify the errors, underline it and correct the errors

```
a) Def Sum(a=1,b)
return a+b
print ("The sum =" Sum(7, -1)
b) def main ()
print ("hello")
```

c) def func2(): print (2 + 3) func2(5)

Q1. Find the output of the following numbers:

Q2. Find the output of the following

Q3. Find the output of the following-

```
def power (b, p):
    r = b ** P
    return r

def calcSquare(a):
    a = power (a, 2)
    return a

n = 5

result = calcSquare(n)
print (result)
```

Q4. Find the output of the following-

```
import math print (math. Floor(5.5))
```

Q5. Find the output def gfg(x,l=[]):for I in range(x): l.append(i*i) print(l) gfg(2) gfg(3,[3,2,1]) gfg(3)Find the output of the following-Q6. count =1 def dothis(): global count for I in (1,2,3) count+=1 dothis() print count Q7. Find the output of the followingdef addem(x,y,z): Print(x+y+z) def prod(x,y,z): return x*y*z A=addem(6,16,26) B=prod(2,3,6) Print(a,b) Q8. def Func(message,num=1): print(message*num) Func('python') Func('easy',3) Q9. def Check(n1=1,n2=2)n1=n1+n2n2+=1print(n1,n2) Check() Check(2,1)Check(3) Q. 10. a=10 def call(): global a a=15 b=20print(a) call()

- 11. Write a user defined function **GenNum(a, b)** to generate odd numbers between a and b (including b)
- 12. Write definition of a method/function **AddOdd(VALUES)** to display sum of odd values from the list of VALUES.

13. Write definition of a Method MSEARCH(STATES) to display all the state names from a STATES, which are starting with alphabet M.					
	For example: If the list STATES contains ["MP',"UP","MH","DL","MZ","WB"]				
	The following should get displayed MP MH				
14.	MZ Write a python function generatefibo(n) where n is the limit, using a generator function Fibonacci (max)(where max is the limit n) that produces Fibonacci series.				
15.	Write a definition of a method COUNTNOW(PLACES) to find and display those place names, in which here are more than 7 characters.				
	For example: If the list PLACES contains. ["MELBORN","TOKYO","PINKCITY","BEIZING","SUNCITY"] The following should get displayed: PINKCITY				
	GENERAL THEORY QUESTIONS				
1.	Differentiate between the round() and floor() functions with the help of suitable example.				
2.	Which string method is used to implement the following: a. To count the number of characters in the string b. To change the first character of the string in capital letter c. To change lowercase to uppercase letter d. To check whether the given character is letter or a number				
3.	What are default arguments?				
4.	What is the difference between actual and formal parameters?				
5.	What is a recursive function?				
6.	What is the difference between built-in functions and modules?				
7.	What is the difference between local variable and global variable?				
8.	What are the advantages of writing functions with keyword arguments?				
9.	What do you mean by scope of variables?				
10.	Which of the following is valid arithmetic operator in Python: (i)// (ii)? (iii)< (iv)and				
11.	Write the type of tokens from the following: (i) if (ii) roll_no				
12.	Which of the following are valid operators in Python:				
	(i) ** (ii) */ (iii) like (iv) (v) is (vi) ^ (vii) between (viii) in				
13.	Which of the following can be used as valid variable identifier(s) in Python? (i) 4thSum (ii) Total (iii) Number# (iv) _Data				

ANSWERS Error Finding Answers

```
Ans 1. Correct code:-
       x= int(input("Enter value of x:"))
       for in range (0,10):
       if x==y:
       print( x+y)
          else:
       \underline{p}rint (x-y)
Ans 2. a,b = 0,0
       if (\underline{a} = = \underline{b}):
       <u>c=a +b</u>
          print(c)
Ans 3. Number = 250
       while Number<=1000:
               if Number >= 750:
                       print (Number)
                       Number = Number+100
               else:
                       print (Number*2)
       Number = Number+50
Ans 4. Val = int(raw_input("Value:"))
                                              # Error 1
       Adder = 0
       for C in range(1,Val,3):
                                              # Error 2
       Adder+=C
       if C\%2 == 0:
                                              # Error 3
               print( C*10 ) # Error 4
       else:
                                      # Error 5
               print (C) # Error 6
       print Adder
Ans 5. Val = 25
                                              #Error 1
       for I in range(0,Val):
                                              #Error 2 and Error 3
               if 1\%2 == 0:
                       print (I+1)
                                               #Error 4
               else:
                       print (I-1)
Ans 6. CORRECTED CODE:-
       STRING= "WELCOME"
       NOTE=" "
       for S in range (0, 8):
       print (STRING [S])
       Also range(0,8) will give a runtime error as the index is out of range. It shouldbe range(0,7)
Ans 7. a=int(input("ENTER FIRST NUMBER"))
       b=int(input("ENTER SECOND NUMBER"))
       c=int(input("ENTER THIRD NUMBER"))
       if a>b and a>c:
               print("A IS GREATER")
       if b>a and b>c:
               print(" B IS GREATER")
       if c>a and c>b:
               print(" C IS GREATER ")
```

```
Ans 8. CORRECTED CODE
       <u>i=1</u>
       a=int(input("ENTER FIRST NUMBER"))
       <u>for</u> i in range(1,11):
               print(a,"*=",i,"=",a*i)
Ans 9. CORRECTED CODE
       while a\leq = 10:
       print("Value of a=",a)
       a+=1
Ans 10. CORRECTED CODE
       Num=int(input("Number:"))
       sum=0
       for i in range(10,Num,3):
       sum+=1
         if i\%2 = 0:
           print(i*2)
       else:
           print(i*3)
       print(sum)
Ans. 11 Corrected Code
       weather='raining'
       if weather == 'sunny':
       print("wear sunblock")
       elif weather == 'snow':
       print("going skiing")
       else:
         print(weather)
Ans.12.
               Math module and String module
Ans 13. Corrected code:
       def execmain():
       x= input("Enter a number:") (indentation)
       if(abs(x)==x):
       print("You entered a positive number")
       else:
       x = -1 (indentation)
       print("Number made positive: " _ x)
       execmain()
ANS:-14
       x=int(input('Enter 1 or 10'))
       if x==1:
               for x in range(1,11):
                      \underline{p}rint(x)
               else:
                       for x in range(10,0,-1):
       print(x)(indentation)
Ans 15.
       To=30
       for K in range(0.To):
               if k\%4==0:
                       print (K*4)
               else:
                       print (K+3)
```

OUTPUT

1. Output:-	60, 480	2. ANS	uter 'ComputerComputer'
3. ANS:	15 14, 50	ANS 4:	1 1 4 1 4 7
ANS 5:-	NO OUTPUT	Ans 6.:	o t n w e o
ANS 7:	-10 -11 -12 10 11 12 30 31 32 50 51	Ans. 8	bbcc 4
Ans 9:	he hello wor ld w ll llo wo or	ANS 10.	G*L*TME
Ans 11.	10 # 10 10 \$ 20 2 # 2 10 \$ 2 1 # 1 1 \$ 2	Ans 12-	1 20 P\$ 4 30 P\$R\$ 9 60 P\$R\$S\$
Ans 13	ISSCE*3129	ANS 14.	47.0 35.0 54.0 26.0
ANS 15.	L*oo#frph#e #wkhq1	ANS 16.	Wh t will h ve so will
Ans 17.	(27.5 - 142.5 12.5)	Ans 18.	(122.0 11.0 14.0 9)
Ans 19.	Now @ 44 # 11 Now @ 55 # 22 Now @ 22 # 55 Now @ 11 # 44	Ans 20.	1:900 1900 3200 3:3600 4600
Ans 21.	SCHOOLbbbbCOM	Ans 22.	250 #150 250 #100 130 #100
Ans 23	aaaaaa OR	infiniteloop	

OUTPUTS(TUPLES)

1. wed sun mon tue wed thru fri sun mon 4. 3. sun wed Mon thru Tue fri 5. 4 6. ('a', 'b', 'p', 'q', 'a', 'b', 'p', 'q') thru 5 7. 8 8. p=as = 0s + p oa9. 10, 40, 70, 100

ERROR TUPLES

Ans 1 a. ti*t2 cant multiply

> b. P is in uppercase in print command

c. t5 is not defined

Ans 2 a. len() is used wrongly

> P is in uppercase in print command b.

T1 is not defined c.

Ans 3 a. 'tuple' object does not support item assignment in line 2

> Append() Method is not with tuple b.

Ans. 4 a) line 3 cannot concatenate with int

> Parenthesis is missing in line 4 b)

Ans 5 a. Syntax error in index function

> b. Syntax error in max function

ANSWERS BASED ON LIST

Ans.1 ['p','b','l','e','m'] Ans. 2 1 ['p','b'] [13,18,11,16,13,18,13,3] **Ans 3**: The above code will produce KeyError, the reason being that there is no key same as the list ['a','b'] **Ans 4**. list1 + list 2 = : [1998, 2002, 1997, 2000, 2014, 2016, 1996, 2009] list1 * 2 = : [1998, 2002, 1997, 2000, 1998, 2002, 1997, 2000] **Ans 5**. List1:[0,2,3,4,5] **Ans 6**. (a) **Explanation:** [x for x in[data] returns a new list copying the values in the list data and the outer for statement prints the newly created list 3 times. Ans7. Ans 8. Type Error Ans 9. ValueError: attempt to assign sequence of size 6 to extended slice of size 5 The above code produce KeyError, the reason being that there is no key same as the Ans 10. list['a','b'] in dictionary aLst

Ans 11. В Ans 12. Α Ans 13. В Ans 14. D

В Ans 15.

FUNCTIONS (ERROR)

```
Ans 1: def sum(a=1,b):__
               return a+b (indentation)
       print ("The sum =", Sum(7,-1))
Ans 2: def main ():
             print ("hello")
Ans 3: def func2():
            print (2 + 3)
       func2() no parameter is to be passed
               20
1. output:
                                              2. Output:
                                                             GMAILbbCOM
               39
               32
               57
3. output:
               25
                                              4. output:
                                                             6
5. output:
               [0,1]
                                              6. output:
                                                             4
               [3,2,1,0,1,4]
               [0,1,0,1,4]
7. output:
               36
                                              8. output:
                                                             python
                                                             easyeasyaesy
9. Output:
               3 3
                                              10.
                                                     15
               32
               53
11.
       def getNum(a,b):
                                              12.Ans
                                                             def AddOdd(Values):
               for i in range(a,b+1):
                                                     n=len(NUMBERS)
                                                     s=0
                      if i\%2 == 1:
                                                     for i in range(n):
                              print(i)
                                                             if (i\%2!=0):
                                                                     s=s+NUMBERS[i]
                                                                     print(s)
13. Ans
               def MSEARCH(STATES):
               for i in STATES:
                      if i[0] == 'M':
                              print i
14.
       def Fibonacci (max):
       a, b = 0, 1
       while a <= max:
             yield a,
       a,b = b,a+b
       def generatefibo(n):
               for i in Fibonacci (n):
                       print(i)
               l = ["MELBORN", "TOKYO", "PINKCITY", "BEIZING", "SUNCITY"]
15. Ans.
               def countno(m):
                      length=len(m)
                       for i in range(0,length):
                              if len(m[i]) > 7:
                                      print(m[i])
               countno(l)
```

GENERAL QUESTIONS

Ans1. The round() function is used to convert a fractional number into whole as the nearest next whereas the floor() is used to convert to the nearest lower whole number.

E.g. round(5.8) = 6 and floor(5.8) = 5

- Ans2. a. len(str) b. str.capitalize() c. str.upper() d. ch.isalnum()
- **Ans3**. Default arguments are used in function definition, if the function is called without the argument, the default argument gets its default value.
- **Ans 4**. Actual parameters are those parameters which are used in function call statement and formal parameters are those parameters which are used in function header (definition).

```
e.g. def sum(a,b): # a and b are formal parameters
return a+b
x, y = 5, 10
res = sum(x,y) # x and y are actual parameters
```

Ans 5. Recursion is a way of programming or coding a problem, in which a function calls itself one or more times in its body. Usually, it is returning the return value of this function call. If a function definition fulfils the condition of recursion, we call this function a recursive function.

Ans 6: Built in functions can be used directly in a program in python, but in order to use modules, we have to use import statement to use them.

Ans 7.

Sno.	LOCAL VARIABLE	GLOBAL VARIABLE	
1	It is a variable which is declared within a	It is a variable which is declared outside	
	function or within a block.	all the functions.	
2	It is accessible only within a function/block in	It is accessible throughtout the	
	which it is declared.	program.	

For example,

- **Ans 8**. i) using the function is easier as we do not need to remember the order of the arguments.
 - ii) we can specify values of only those parameters which we want to give, as other parameters have default argument values
- **Ans9**. Scope of variables refers to the part of the program where it is visible, i.e, the area where you can use it

Ans10. (i)

Ans 11. i) Keyword ii)identifier

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Ans 12. i) iv) vi) viii) Ans 13. ii) and iv)
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