WORKSHEET WITH SOLUTION PYTHON – REVISION TOUR

1	"Welcome" isliterals
Ans.	String
2	\$ symbol can be used in naming an identifier (True/False)
Ans.	False
3	Write any 2 data types available in Python
Ans.	int, bool
4	"Division by zero" is an example oferror.
Ans.	Runtime Error
5	<pre>range(1,10) will return values in the range ofto</pre>
Ans.	1 to 9
6	<pre>randint(1,10) will return values in the range ofto</pre>
Ans.	1 to 10
7	"Computer Science"[0:6] = "Computer Science"[3:10] = "Computer Science"[::-1] = "Computer Science"[-8:]=
Ans.	"Computer Science"[0:6] = Comput "Computer Science"[3:10] = puter S "Computer Science"[::-1] = ecneicS retupmoC "Computer Science"[-8:] = Science
8	Output of : print("Ok"*4 + "Done")
Ans.	OkOkOkDone
9	Output of : print(print("Why?"))
Ans.	Why? None
10	Raj was working on application where he wanted to divide the two number (A and B) , he has written the expression as $C = A/B$, on execution he entered 30 and 7 and expected answer was 4 i.e. only integer part not in decimal, but the answer was 4.285 approx, help Raj to correct his expression and achieving the desired output. Correct Expression:
Ans.	C = A//B
11	Can you guess the output? C = -11%4 print(C)

12	Write 2 advantages and disadvantages of Buthon programming language
14	Write 2 advantages and disadvantages of Python programming language
	Advantages
	1) Easy to Use
Ans.	2) Expressive
	Language Disadvantages 1) Slow because of interpreted
	2) Not strong on type binding
	Identify the valid and Invalid identifiers names:
13	Emp-Code, bonus, While, SrNo. , for, #count, Emp1, 123Go, Bond007
Ans.	Valid: _bonus, While, Emp1,Bond007
Alis.	Invalid : Emp-code, SrNo., for, #count, 123Go
14	Identify the type of literals for each:
	(i) 123
	(ii) "Hello"
	(iii) "Bye\nSee You"
	(iv) "A"
	(v) 345.55
	(vi) 10+4j
	(vii) 0x12 (i) Int
	(i) Int (ii) String
	(iii) String
Ans.	(iv) String
	(v) Float
	(vi) Complex
	(vii) Int
	What is the size of each string?
15	(i) "Python"
13	(ii) "Learning@\nCS"
	(iii) "\table"
	(i) 6
Ans.	(ii) 12
	(iii) 5
	Output of :
1.6	(i) True + True =
16	(ii) 100 + False =
	(iii) $-1 + True =$
	(iv) bool(-1 + True) =
	(i) 2
Ans.	(ii) 100
	(iii) 0
	(iv) False

```
Output of
              2 * 7
         (i)
         (ii) 2 ** 7
 17
         (iii) 2**2**3
         (iv) 17 % 20
         (\nabla)
              not(20>6) or (19>7) and (20==20)
         (i)
                 128
         (ii)
         (iii)
                 256
Ans.
         (iv)
                 17
         (V)
                 True
```

```
Output of :
       a,b,c = 20,40,60
 18
       b+=10
       c+=b
       print(a,b,c)
    20 50 110
Ans.
     Write a program to enter 2 number and find sum and product
19
     n1 = int(input('Enter num1
     '))
         n2 = int(input('Enter
     num2 ')) s = n1 + n2
Ans.
     p = n1 * n2
     print('Sum=',s)
     print('Product =',p)
     Write a program to enter temperature in Fahrenheit and convert it
 20
     f = int(input('Enter temperature (Fahrenheit) '))
     c = (f-32)*5/9
Ans.
     print('Celcus =',c)
     Write a program to enter any money and find out number
     denominations can be used to make that money. For e.g. if the money
     entered is 2560
     Then output should be
     2000 = 1
     500 = 1
     200 = 0
 21
     100 = 0
     50 = 1
     2.0 = 0
     10 = 1
     5 = 0
     2 = 0
     1 = 0
     Hint : use % and // operator (Without Loop / Recursion)
```

```
amount = int(input('Enter Amount '))
     n2000 = amount//2000
     amount = amount %
     2000 n500 =
     amount//500 amount =
     amount % 500 n200 =
     amount//200 amount =
     amount %200 n100 =
     amount//100 amount =
     amount %100 n50 =
Ans.
     amount//50 amount =
     amount %50 \text{ n20} =
     amount//20 amount =
     amount %20 n10 =
     amount // 10 amount =
     amount %10
     n5 = amount // 5
     amount = amount % 5
     n2 = amount//2
     amount = amount % 2
```

```
n1 = amount//1
     amount = amount % 1
     print('2000=',n2000)
     print('500=', n500)
     print('200=',n200)
     print('100=', n100)
     print('50=',n50)
     print('20=',n20)
     print('10=', n10)
     print('5=',n5)
     print('2=',n2)
     print('1=', n1)
     Consider a list:
 22
     MyFamily = ["Father","Mother","Brother","Sister","Jacky"]
             write statement to print "Brother"
        a)
        b)
             write statement to print all items of list in reverse order
            write statement to check "Sister" is in MyFamily or not
        C)
            write statement to update "Jacky" with "Tiger"
        d)
            write statement remove "Jacky" from MyFamily and also print it
        e)
             write statement to add "Tommy" in MyFamily at the end
Ans.
        a) print(MyFamily[2])
        b) print(MyFamily[::-1])
        c) 'Sister' in MyFamily
        d) MyFamily[len(MyFamily)-1]='Tiger'
           OR MyFamily[4]="Tiger"
        e) MyFamily.pop()
        f) MyFamily.append("Tommy")
```

23	Consider a Tuple:
	Record = $(10, 20, 30, 40)$
	Raj wants to add new item 50 to tuple, and he has written expression
	as
	Record = Record + 50, but the statement is giving an error, Help Raj
	in writing correct expression. Correct Expression:
Ans.	Record = Record + (50,)
24	What is the difference between List and Tuple?
Ans.	List is mutable type whereas Tuple is Immutable.
25	What is the difference between List and String?
Ans.	List is mutable type whereas String is immutable. List can store elements of any type like-string, list, tuple, etc. whereas String can store element of character type only.
26	What is ordered and unordered collection? Give example of each
Ans.	Ordered collection stores every elements at index position starts from zero like List, Tuples, string whereas unordered collection stores elements by assigning key to each value not by index like dictionary
27	Consider a Dictionary
	<pre>Employee = {"Empno":1,"Name":"Snehil","Salary":80000}</pre>

	Write statements:
	(i) to print employee name
	(ii) to update the salary from 80000 to 90000
	(iii) to get all the values only from the dictionary
	(i) print(Employee['Name'])
Ans.	(ii) Employee['Salary']=90000
	(iii) print(Employee.values())
28	Num = 100
	Isok = False
	print(type(Num)) =
	<pre>print(type(Isok)) =</pre>
Ans.	<pre><class 'int'=""></class></pre>
0.0	<pre><class 'bool'=""></class></pre>
29	Name the Python Library module which need to be imported to invoke
	the following function:
	a) floor()
	b) randrange()
	c) randint()
	d) sin()
	a) math
Ans.	b) random
•	c) random
	d) math

```
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)
     To=30
     for K in range(0,To):
                <u>if</u> <u>K</u>%4==0:
Ans.
                           print(K*4)
                else:
                           print(K+3)
 31
     Rewrite the following code in python after removing all syntax
     error(s). Underline each correction done in the code:
           a=5
           work=true
           b=hello
           c=a+b
           FOR i in range(10)
                if i%7=0:
                     continue
     a=5
Ans. | work=True
     b='hello'
```

```
c = a + b
     for i in range(10):
                if i%7<u>==</u>0:
                           continue
 32
     Rewrite the following code in python after removing all syntax
     error(s). Underline each correction done in the code:
     for Name in [Ramesh, Suraj, Priya]
           IF Name[0]='S':
                print(Name)
     for Name in ["Ramesh", "Suraj", "Priya"]:
           if Name[0] == 'S':
Ans.
                print(Name)
     Rewrite the following code in python after removing all syntax
 33
     error(s). Underline each correction done in the code:
           a=b=10
           c=a+b
           While c = < 20:
                print(c,END="*")
                c += 10
```

	1 10
	a=b=10
_	c=a+b
Ans.	<u>while</u> c <u><=</u> 20:
	print(c, <u>end</u> ="*")
	c+=10
34	Choose the correct possible answer(s)
	<pre>a = random.randint(1,5)</pre>
	b = random.randint(1,3)
	<pre>c = random.randint(2,6)</pre>
	print(a,b,c)
	(i) 2 1 3 (ii) 4 4 4 (iii) 3 2 1 (iv) 5 3 5
Ans.	(i) (iv)
35	What is type conversion in Python? What are different types of
35	conversion? Illustrate with example.
	Type conversion refers to conversion of one data type to another
	data type for e.g. string is converted to int. There are 2 types
	of conversion:
	1) Implicit: in this of conversion, it is automatically done
	by the interpreter without user intervention.
	Example:
	Num = [10, 20, 30]
Ans.	<pre>print(type(Num[1])) # int</pre>
	Num[1] = Num[1] + 4.5 # it will automatically convert to float
	<pre>Print(type(Num[1])) # float</pre>
	2) Explicit: in this type of conversion, user will convert any type
	of value to its desired type. For example string to int.
	Example:
	num = int(input("Enter number "))
	<pre>#in the above code input of string type will be converted explicitly in int.</pre>
	Fill in the blanks to execute infinite loop:
36	while :
	print("spinning")
	brine (shiming)

Ans.	while True:
AIIS.	<pre>print("spinning")</pre>
37	Write a program to enter any number and check it is divisible by 7
	or not
	<pre>num = int(input('Enter any number '))</pre>
	if num % 7 == 0:
Ans.	print('Divisible by 7')
	else:
	print('Not divisible by 7')
38	Fill in the blanks to execute loop from 10 to 100 and 10 to 1
	(i)
	for i in range(
): print(i)
	(ii)
	for i in range():
	print(i)

```
(i)
     for i in range (10, 101):
        print(i)
Ans.
      (ii)
     for i in range (10,0,-1):
        print(i)
     What will be the output if entered number (n) is 10 and 11
 39
     i=2
     while i<n:
            if n \% i == 0:
               break
            print(i
            ) i=i+1
     else:
       print("done")
     If n is 10 then when program control enter in loop the if condition
     will be satisfied and break will execute cause loop to terminate.
     The else part of while will also be not executed because loop
    terminated by break. (NO OUTPUT)
Ans.
     If n is 11 it will print 2 to 10 and then it will execute else part
     of while loop and print "done" because loop terminate normally
     without break
     What will be the difference in output
 40
     for i in range (1,10):
           if i % 4 == 0:
                brea
          print(i)
      (ii)
     for i in range (1,10):
          if i % 4 == 0:
              continue
          print(i)
```



```
What possible outputs(s) are expected to be displayed on screen at
      the time of execution of the program from the following code? Also
      specify the minimum and maximum value that can be assigned to the
      variable PICKER.
      import random
      PICKER=random.randint(0,3)
      COLORS=["BLUE", "PINK", "GREEN", "RED"]
      for I in COLORS:
           for J in range(1,PICKER):
 42
                 print(I,end="")
           print()
      (i)
                                      (ii)
      BLUE
      PINK
                                      BLUEPINK
      GREEN
                                      BLUEPINKGREEN
      RED
                                      BLUEPINKGREENRED
       (iii)
      PINK
                                      BLUEBLUE
      PINKGREEN
                                      PINKPINK
      PINKGREENRED
                                      GREENGREEN
                                      REDRED
      Minimum Value of PICKER = 0
     Maximum Value of PICKER = 3
Ans.
      Output: (i) and (iv)
      What are the correct ways to generate numbers from 0 to 20
 43
```

	range(20) (ii) range(0,21) (iii) range(21) (iv) range(0,20)
Ans.	(ii) And (iii)
44	Which is the correct form of declaration of dictionary? (i) Day={1:"monday", 2:"tuesday", 3:"wednesday"}
	(ii) Day=(1; "monday",2; "tuesday",3; "wednesday")
	(iii) Day=[1:"monday",2:"tuesday",3:"wednesday"]
	(iv) Day={1"monday",2"tuesday",3"wednesday"]
Ans.	(i)
	Choose the correct declaration from the following code:
45	<pre>Info = ({,,roll":[1,2,3], "name":[,,amit", "sumit", "rohit"]})</pre>
_	List (ii) Dictionary (iii) String (iv) Tuple
Ans.	(iv) Tuple
	Which is the valid dictionary declaration?
4.0	i) d1={1:'January',2='February',3:'March'}
46	ii) d2=(1:'January',2:'February',3:'March'}
	iii) d3={1:'January',2:'February',3:'March'}
	iv) d4={1:January,2:February,3:March}
Ans.	(iii)
Ans.	
	(iii)
Ans.	(iii) What is/are not true about Python"s Dictionary?
	(iii) What is/are not true about Python"s Dictionary? (i) Dictionaries are mutable
	(iii) What is/are not true about Python"s Dictionary? (i) Dictionaries are mutable (ii) Dictionary items can be accessed by their index position
	(iii) What is/are not true about Python"s Dictionary? (i) Dictionaries are mutable (ii) Dictionary items can be accessed by their index position (iii) No two keys of dictionary can be same

```
48
      x="abAbcAba"
      for w in x:
           if w=="a":
                print("*")
           else:
                print(w)
      b
      Α
      b
Ans.
      С
      Α
      b
      Convert the following "for" loop using "while" loop
 49
      for k in range (10, 20, 5):
            print(k)
      k = 10
      while k \le 20:
Ans.
                print(k)
                k+=5
      Give Output
      colors=["violet", "indigo", "blue", "green", "yellow", "orange", "red"]
 50
      del colors[4]
```

```
colors.remove("blue")
      p=colors.pop(3)
      print(p, colors)
Ans. orange ['violet', 'indigo', 'green', 'red']
 51
      Output of following code:
      A=10
      B=15
      S=0
      while A<=B:
         S = A + B
         A = A + 10
          B = B + 10
          if A>=40:
            A = A + 100
      print(S)
Ans. | 65
      Output of the following code:
      X = 17
      if X > = 17:
 52
          X += 10
      else:
          X = 10
      print(X)
Ans.
      27
```

```
How many times loop will execute:
     P=5
 53
     Q=3
     while P<=Q:
        P += 6
     6 times
Ans.
     Find and write the output of the following python code:
     Msg="CompuTer"
     Msg1=''
     for i in range(0, len(Msg)):
          if Msg[i].isupper():
 54
              Msg1=Msg1+Msg[i].lower()
     elif i%2==0:
              Msg1=Msg1+'*'
          else:
              Msg1=Msg1+Msg[i].upper()
     print(Msg1)
     cO*P*t*R
Ans.
     A=1
 55
     B=1
     0
     print( A == B)
                               = ?
     print(id(A) == id(B)
                              = ?
                                = ?
     print(A is B)
     Tru
Ans.
     е
     Tru
     True
```