Week 1: Assignment 1

The due date for submitting this assignment has passed.

Due on 2025-08-06, 23:59 IST.

Assignment submitted on 2025-08-06, 21:32 IST

1) Which of the following variable names are INVALID in Python?	1 point
✓ 1_variable	
variable_1	
variable1	
variable#	
Yes, the answer is correct. Score: 1	
Accepted Answers:	
1_variable	
variable#	
2) Which of the following operators have lower precedence than "not" in Python?	1 point
O+	
and	
O==	
No, the answer is incorrect.	
Score: 0	
Accepted Answers: and	
	1 point
= 10	
n=5 print(a ** b % 3)	
O 0	
O 100	
◎ 1	
\bigcirc_2	
Yes, the answer is correct.	
Score: 1 Accepted Answers:	
1	
	1 point
reetings="Namaste" reetings_1=float(greetings)	
rint(type(greetings_1))	
int	
O float	
str	
Code will throw an error.	
Yes, the answer is correct. Score: 1	
Accepted Answers:	
Code will throw an error.	
5) Given two variables, j = 6 and g = 3.3 . If both normal division and floor division operators were used to divide j by g , what would be the data type of the alue obtained from the operations?	1 point
int, int	
float, float	
O float, int	
int, float	
Yes, the answer is correct. Score: 1	
Accepted Answers:	
float, float	

4) What will be the output of the following code snippet?	1 point
greetings="Namaste"	
greetings_1 = float(greetings)	
print(type(greetings_1))	
int	
Ofloat	
str	
Code will throw an error.	
Yes, the answer is correct. Score: 1	
Accepted Answers:	
Code will throw an error.	
5) Given two variables, j = 6 and g = 3.3 . If both normal division and floor division operators were used to divide j by g , what would be the data type of the value obtained from the operations?	1 point
\bigcirc int, int	
float, float	
O float, int	
int, float	
Yes, the answer is correct. Score: 1	
Accepted Answers: float, float	
What will be the output of the following code snippet?	1 point
a = "10"	1 point
b = float(a) + 5	
result=str(b)+"123"	
print(type(result))	
O <class'float'></class'float'>	
<pre> <class'str'> </class'str'></pre>	
O <class'int'></class'int'>	
The code will give an error.	
Yes, the answer is correct. Score: 1	
Accepted Answers:	
<class'str'></class'str'>	
7) What will be the output of the following code snippet?	1 point
a = 15	, point
b = 3	
c = 4	
result=a+b*c//(c%b)-5	
print(result)	
\bigcirc_{20}	
<u></u>	
© 22	
\bigcirc 0	
Yes, the answer is correct.	
Score: 1 Accepted Answers:	
22	^

7) What will be the output of the following code snippet? a = 15	1 point
b = 3	
c = 4 result = a + b * c // (c % b) - 5	
print(result)	
O ₂₀	
\bigcirc 1	
© 22	
O 0	
Yes, the answer is correct. Score: 1	
Accepted Answers:	
22	
8) What is the output of the following code snippet?	1 point
a = 4	
b = 5	
a *= b * 2 print(a)	
print(a)	
○ ₁₀	
○ 20	
O 25	
a 40	
Yes, the answer is correct.	
Score: 1 Accepted Answers:	
40	
9) What is the output of the following code snippet?	1 point
a = 3 b = 5	
c = (a == 3) and (b == 5) or (a!= 3)	
print(c)	
● True	
False	
© Error	
Yes, the answer is correct.	
Score: 1	
Accepted Answers:	
True	
10) Let a = 5 (101 in binary) and b = 3 (011 in binary). What is the result of the following operation?	1 point
a = 5	•
b = 3	
print(a&b)	
○ 3	
O ₇	
O ₅	
© 1	
Yes, the answer is correct.	
Score: 1	
Accepted Answers:	

Assignment submitted on 2025-08-06, 22:11 IST

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1) Which of the following object does not support indexing?
                                                                                                                            1 point
  O tuple
  Olist
  dictionary
  set
 Yes, the answer is correct.
 Accepted Answers:
2) How can you concatenate the strings "data" and "science" with a hyphen(-) between them?
                                                                                                                           2 points
  "data".join("science")
  -".join(["data", "science"])
  "data" + "-" + "science"
  None of the above.
 Partially Correct.
Score: 1
 Accepted Answers:
 "-".join(["data", "science"])
"data" + "-" + "science"
3) What will be the output of the following code snippet?
                                                                                                                           2 points
import numpy as np
a = np.array([[1, 2], [3, 4]])
b = np.array([[5, 6], [7, 8]])
c = np.dot(a, b)
print(c)
   O [[ 5 12]
  [21 32]]
   [[19 22]
  [43 50]]
   [[3 8]
  [35 56]]
   O [[ 5 21]
  [12 32]]
 Yes, the answer is correct. Score: 2
 Accepted Answers:
4) What will be the output of the following code snippet?
                                                                                                                           2 points
import numpy as np
a = np.arange(10)
b = a[1:5]
b[0] = 10
print(a)
  [ 1 10 3 4 5 6 7 8 9 10]
  0 [ 10 1 2 3 4 5 6 7 8 9]
  0 [ 0 10 2 3 4 5 6 7 8 9]
  0 [ 10 2 3 4 5 6 7 8 9 ]
 No, the answer is incorrect. Score: 0
 Accepted Answers:
[ 0 10 2 3 4 5 6 7 8 9]
 5) What is the output of the following code?
                                                                                                                           2 points
           s = \{1, 2, 4, 5\}
           l = []
           for i in range(len(s)):
               l +=[1+i]
           print(1)
  [2, 3, 4, 5]
  0[0, 1, 2, 3]
  [1, 2, 3, 4]
  Will throw an error: Set objects are not iterable.
 Yes, the answer is correct.
 Score: 2
 Accepted Answers:
 [1, 2, 3, 4]
```

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6) What will be the output of the following code snippet?
                                                                                                                                           1 point
 A = \{1, 'two', 3.0, 3, 27.5, 'four', 5\}
    = \{27.5, 10\}
 print(A | B)
   0 {27.5}
   [1, 'four ', 3.0, 3, 5, 'two ', 10, 27.5]
   [1, 'four ', 3.0, 5, 'two ', 10, 27.5]
   O{1, 'four ', 3.0, 5, 'two ', 3}
  No, the answer is incorrect.
Score: 0
  Accepted Answers:
  {1, 'four ', 3.0, 5, 'two ', 10, 27.5}
 7) Let t1 = (1, 2, \text{"tuple"}, 4) and t2 = (5, 6, 7). Which of the following will not give any error after the execution?
                                                                                                                                          2 points
   t1.append(5)
   x = t2[t1[1]]
   \sqrt{ t3 = t1 + t2}
   t3 = (t1, t2)
   t3 = (list(t1), list(t2))
  Yes, the answer is correct.
  Score: 2
  Accepted Answers:
  x = t2[t1[1]]
  t3 = t1 + t2
  t3 = (t1, t2)
  t3 = (list(t1), list(t2))
 8) Let d = {1 : "Pyhton", 2 : [1, 2, 3]}. Which among the following will not give the error after the execution?
                                                                                                                                          2 points
   d[2].append(4)
   x = a[0]
   d["one"] = 1
   d.update({'one' : 2})
  Yes, the answer is correct.
  Score: 2
  Accepted Answers:
  d[2].append(4)
  d["one"] = 1
  d.update({'one': 2})
 9) Which of the following data type is immutable?
                                                                                                                                           1 point
   O list
   ○ set
   tuple
   dictionary
  Yes, the answer is correct.
  Score: 1
  Accepted Answers:
  tuple
 10) student = {'name': 'Jane', 'age': 25, 'courses': ['Math', 'Statistics']}
                                                                                                                                          2 points
Which among the following will return
{'name': 'Jane', 'age': 26, 'courses': ['Math', 'Statistics'], 'phone': '123-456'}
   student.update({'age' : 26})
   student.update({'age' : 26, 'phone': '123-456'})
   student['phone'] = '123-456'
   student.update({'age': 26})
   None of the above
  Yes, the answer is correct.
  Score: 2
  Accepted Answers:
  student.update({'age': 26, 'phone': '123-456'})
  student['phone'] = '123-456'
  student.update({'age': 26})
```

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tupie
 10) student = {'name': 'Jane', 'age': 25, 'courses': ['Math', 'Statistics']}
                                                                                                                                        2 points
Which among the following will return
{'name': 'Jane', 'age': 26, 'courses': ['Math', 'Statistics'], 'phone': '123-456'}
   student.update({'age' : 26})
   student.update({'age' : 26, 'phone': '123-456'})
   student['phone'] = '123-456'
   student.update({'age': 26})
   None of the above
  Yes, the answer is correct.
  Score: 2
  Accepted Answers:
  student.update({'age' : 26, 'phone': '123-456'})
  student['phone'] = '123-456'
  student.update({'age': 26})
 11) What is the output of the following code?
                                                                                                                                         1 point
            name = "Mahesh"
            l =[]
            for i in name:
               l.append(i.capitalize())
            print(l)
   ('M', 'A', 'H', 'E', 'S', 'H')
   ['m', 'a', 'h', 'e', 's', 'h']
   ['M', 'a', 'h', 'e', 's', 'h']
   ['m', 'A', 'H', 'E', 'S', 'H']
  Yes, the answer is correct.
  Score: 1
  Accepted Answers:
  ['M', 'A', 'H', 'E', 'S', 'H']
 12) What will be the output of the following code snippet?
                                                                                                                                        2 points
 a = np.array([range(i, i+4) for i in [1, 3, 5]])
 print(a)
   [[1 2 3 4 5]
    [3 4 5 6 7]
    [5 6 7 8 9]]
   [[1 2 3 4]
    [3 4 5 6]
    [5 6 7 8]]
   0 [[2 3 4]
   [4 5 6]
   [6 7 8]]
   None of the above
  Yes, the answer is correct.
  Score: 2
  Accepted Answers:
  [[1 2 3 4]
  [3 4 5 6]
  [5 6 7 8]]
```