 **AMITY INTERNATIONAL SCHOOL, MAYUR VIHAR**

**SUBJECT: Computer Science**

**CLASS: XI – Practical Assignment**

**Ch 3- Python Programming Fundamentals (Assignment 2)**

Give the output for the following statements (Use python interpreter mode):

|  |  |  |
| --- | --- | --- |
| **S.NO.** | **STATEMENTS** | **OUTPUT** |
| 1. | b = 7  c = b + 11  id (b)  id (c) | 2512559276464  2512559276816 |
| 2. | string1 = 'Python'  string2 = 'Python'  id (string1)  id (string2)  type (string1)  type (string2)  string1 == string2  string1 is string2 | 2201670206000  2201670206000  <class 'str'>  <class 'str'>  True  True |
| 3. | num1 = 1 + 0j  num2 = 1  type (num1)  type 9num2)  id (num1)  id (num2) | <class 'complex'>  <class 'int'>  2257581245232  2257543233776 |
| 4. | z = 2  type(z) | <class 'int'> |
| 5. | p = 0.5  type(p) | <class 'float'> |
| 6. | y = p + z % 4  print y | 2.5 |
| 7. | x = y + (z % 4)  print x | 4.5 |
| 8. | r = p + z - x / y \* y \*\* z // x % (p + z)  print r | 0.5 |
| 9. | x - y \* 2 > y \* 2 and y \* p > y | False |
| 10. | x - y \* 2 > y \* 2 or not y \* p > y | True |

Q.2 What is the difference between a+1 and a+=1 ? To find out, execute the following code fragments:

Fragment 1 Fragment 2

a = 20 a = 20

print a+1 a+=1

print a

Output Fragment 1 :

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Output Fragment 2 :

21

Q.3 Predict the output of the following code :

num = 20.5

z = 3

result = 2 + z \* z \*\* 3 + num / / z

print result

89.0

Q.4 Write a statement that calculates the volume of a sphere. Take a value of radius from user and calculate and print V .

Volume (V) = 4 / 3 (π r3)

π = 3.142

rad=int(input("Enter radius"))

vol=4/3\*(3.14\*(rad\*\*3))

print (vol)