

**1. \_\_\_\_\_ represents an entity in the real world with its identity and behaviour.**

- a) A method**
- b) An object**
- c) A class**
- d) An operator**

**2. \_\_\_\_\_ is used to create an object.**

- a) class**
- b) constructor**
- c) User-defined functions**
- d) In-built functions**

**3. What will be the output of the following Python code?**

**class test:**

**def \_\_init\_\_(self,a="Hello World"):**

**self.a=a**

**def display(self):**

**print(self.a)**

**obj=test()**

**obj.display()**

- a) The program has an error because constructor can't have default arguments**
- b) Nothing is displayed**
- c) "Hello World" is displayed**
- d) The program has an error display function doesn't have parameters**

**4. What is setattr() used for?**

- a) To access the attribute of the object**
- b) To set an attribute**
- c) To check if an attribute exists or not**
- d) To delete an attribute**

**5. What is getattr() used for?**

- a) To access the attribute of the object**
- b) To delete an attribute**
- c) To check if an attribute exists or not**
- d) To set an attribute**

**6. What will be the output of the following Python code?**

**class change:**

**def \_\_init\_\_(self, x, y, z):**

**self.a = x + y + z**

**x = change(1,2,3)**

**y = getattr(x, 'a')**

**setattr(x, 'a', y+1)**

**print(x.a)**

- a) 6**
- b) 7**
- c) Error**
- d) 0**

**7. What will be the output of the following Python code?**

**class test:**

**def \_\_init\_\_(self,a):**

**self.a=a**

**def display(self):**

**print(self.a)**

**obj=test()**

**obj.display()**

- a) Runs normally, doesn't display anything**
- b) Displays 0, which is the automatic default value**
- c) Error as one argument is required while creating the object**
- d) Error as display function requires additional argument**

**8. Is the following Python code correct?**

**class A:**

**def \_\_init\_\_(self,b):**

**self.b=b**

**def display(self):**

**print(self.b)**

**obj=A("Hello")**

**del obj**

- a) True**
- b) False**

**9. What will be the output of the following Python code?**

**class test:**

**def \_\_init\_\_(self):**

**self.variable = 'Old'**

**self.Change(self.variable)**

**def Change(self, var):**

**var = 'New'**

**obj=test()**

**print(obj.variable)**

- a) Error because function change can't be called in the \_\_init\_\_ function**
- b) 'New' is printed**
- c) 'Old' is printed**
- d) Nothing is printed**

**10. What is Instantiation in terms of OOP terminology?**

- a) Deleting an instance of class**
- b) Modifying an instance of class**
- c) Copying an instance of class**
- d) Creating an instance of class**

**11. What will be the output of the following Python code?**

**class fruits:**

**def \_\_init\_\_(self, price):**

**self.price = price**

**obj=fruits(50)**

**obj.quantity=10**

**obj.bags=2**

**print(obj.quantity+len(obj.\_\_dict\_\_))**

**a) 12**

**b) 52**

**c) 13**

**d) 60**

**12. What will be the output of the following Python code?**

**class Demo:**

**def \_\_init\_\_(self):**

**pass**

**def test(self):**

**print(\_\_name\_\_)**

**obj = Demo()**

**obj.test()**

**a) Exception is thrown**

**b) \_\_main\_\_**

**c) Demo**

**d) test**

**13. The assignment of more than one function to a particular operator is**

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- a) Operator over-assignment**
- b) Operator overriding**
- c) Operator overloading**
- d) Operator instance**

**14. Which of the following is not a class method?**

- a) Non-static**
- b) Static**
- c) Bounded**
- d) Unbounded**

**15. What will be the output of the following Python code?**

```
c.test=c.test+1
```

```
k=k+1
```

```
class A:
```

```
    def __init__(self):
```

```
        self.test = 0
```

```
def main():
```

```
    Count=A()
```

```
    k=0
```

```
    for i in range(0,25):
```

```
        add(Count,k)
```

```
    print("Count.test=", Count.test)
```

```
    print("k =", k)
```

```
main()
```

**a) Exception is thrown**

**b)**

**Count.test=25**

**k=25**

**c)**

**Count.test=25**

**k=0**

**d)**

**Count.test=0**

**k=0**

**16. Which of the following Python code creates an empty class?**

**a)**

**class A:**

**return**

**b)**

**class A:**

**pass**

**c)**

**class A:**

**d) It is not possible to create an empty class**

**17. Is the following Python code valid?**

```
class B(object):  
    def first(self):  
        print("First method called")  
    def second():  
        print("Second method called")  
ob = B()  
B.first(ob)
```

- a) It isn't as the object declaration isn't right**
- b) It isn't as there isn't any `__init__` method for initializing class members**
- c) Yes, this method of calling is called unbounded method call**
- d) Yes, this method of calling is called bounded method call**

**18. What are the methods which begin and end with two underscore characters called?**

- a) Special methods**
- b) In-built methods**
- c) User-defined methods**
- d) Additional methods**

**19. Special methods need to be explicitly called during object creation.**

- a) True**
- b) False**



**20. What will be the output of the following Python code?**

```
class demo():  
    def __repr__(self):  
        return '__repr__ built-in function called'  
    def __str__(self):  
        return '__str__ built-in function called'  
s=demo()  
s
```

- a) Error**
- b) Nothing is printed**
- c) \_\_str\_\_ called**
- d) \_\_repr\_\_ called**

**21. What will be the output of the following Python code?**

```
class demo():  
    def __repr__(self):  
        return '__repr__ built-in function called'  
    def __str__(self):  
        return '__str__ built-in function called'  
s=demo()  
print(s)
```

- a) \_\_str\_\_ called**
- b) \_\_repr\_\_ called**
- c) Error**
- d) Nothing is printed**

**22. What is hasattr(obj,name) used for?**

- a) To access the attribute of the object**
- b) To delete an attribute**
- c) To check if an attribute exists or not**
- d) To set an attribute**

**23. What will be the output of the following Python code?**

**class stud:**

**def \_\_init\_\_(self, roll\_no, grade):**

**self.roll\_no = roll\_no**

**self.grade = grade**

**def display (self):**

**print('Roll no : ', self.roll\_no, ', Grade: ', self.grade)**

**stud1 = stud(34, 'S')**

**stud1.age=7**

**print(hasattr(stud1, 'age'))**

- a) Error as age isn't defined**
- b) True**
- c) False**
- d) 7**

**24. What is delattr(obj,name) used for?**

- a) To print deleted attribute**
- b) To delete an attribute**
- c) To check if an attribute is deleted or not**
- d) To set an attribute**

**25. \_\_del\_\_ method is used to destroy instances of a class.**

- a) True**
- b) False**

**26. What will be the output of the following Python code?**

**class stud:**

**'Base class for all students'**

**def \_\_init\_\_(self, roll\_no, grade):**

**self.roll\_no = roll\_no**

**self.grade = grade**

**def display (self):**

**print("Roll no : ", self.roll\_no, ", Grade: ", self.grade)**

**print(student.\_\_doc\_\_)**

- a) Exception is thrown**
- b) \_\_main\_\_**
- c) Nothing is displayed**
- d) Base class for all students**

**27. What does `print(Test.__name__)` display (assuming Test is the name of the class)?**

- a) ()**
- b) Exception is thrown**
- c) Test**
- d) `__main__`**

**28. Which of the following best describes inheritance?**

- a) Ability of a class to derive members of another class as a part of its own definition**
- b) Means of bundling instance variables and methods in order to restrict access to certain class members**
- c) Focuses on variables and passing of variables to functions**
- d) Allows for implementation of elegant software that is well designed and easily modified**

**29. Which of the following statements is wrong about inheritance?**

- a) Protected members of a class can be inherited**
- b) The inheriting class is called a subclass**
- c) Private members of a class can be inherited and accessed**
- d) Inheritance is one of the features of OOP**

**30. What will be the output of the following Python code?**

```
class Demo:
```

```
    def __new__(self):  
        self.__init__(self)  
        print('Demo's __new__() invoked')  
def __init__(self):  
    print('Demo's __init__() invoked')
```

```
class Derived_Demo(Demo):
```

```
    def __new__(self):  
        print('Derived_Demo's __new__() invoked')  
def __init__(self):  
    print('Derived_Demo's __init__() invoked')
```

```
def main():
```

```
    obj1 = Derived_Demo()  
    obj2 = Demo()
```

```
main()
```

**a)**

```
Derived_Demo's __init__() invoked  
Derived_Demo's __new__() invoked  
Demo's __init__() invoked  
Demo's __new__() invoked
```

**b)**

```
Derived_Demo's __new__() invoked  
Demo's __init__() invoked  
Demo's __new__() invoked
```

c)

**Derived\_Demo's \_\_new\_\_() invoked**

**Demo's \_\_new\_\_() invoked**

d)

**Derived\_Demo's \_\_init\_\_() invoked**

**Demo's \_\_init\_\_() invoked**

**31. What will be the output of the following Python code?**

**class Test:**

**def \_\_init\_\_(self):**

**self.x = 0**

**class Derived\_Test(Test):**

**def \_\_init\_\_(self):**

**self.y = 1**

**def main():**

**b = Derived\_Test()**

**print(b.x,b.y)**

**main()**

**a) 0 1**

**b) 0 0**

**c) Error because class B inherits A but variable x isn't inherited**

**d) Error because when object is created, argument must be passed like  
Derived\_Test(1)**

**32. What will be the output of the following Python code?**

```
class A():  
    def disp(self):  
        print("A disp()")  
class B(A):  
    pass  
obj = B()  
obj.disp()
```

- a) Invalid syntax for inheritance**
- b) Error because when object is created, argument must be passed**
- c) Nothing is printed**
- d) A disp()**

**33. All subclasses are a subtype in object-oriented programming.**

- a) True**
- b) False**

**34. When defining a subclass in Python that is meant to serve as a subtype, the subtype Python keyword is used.**

- a) True**
- b) False**

**35. Suppose B is a subclass of A, to invoke the \_\_init\_\_ method in A from B, what is the line of code you should write?**

- a) A.\_\_init\_\_(self)**
- b) B.\_\_init\_\_(self)**
- c) A.\_\_init\_\_(B)**
- d) B.\_\_init\_\_(A)**

**36. What will be the output of the following Python code?**

```
class Test:  
    def __init__(self):  
        self.x = 0  
class Derived_Test(Test):  
    def __init__(self):  
        Test.__init__(self)  
        self.y = 1  
def main():  
    b = Derived_Test()  
    print(b.x,b.y)  
main()
```

- a) Error because class B inherits A but variable x isn't inherited**
- b) 0 0**
- c) 0 1**
- d) Error, the syntax of the invoking method is wrong**



**37. What will be the output of the following Python code?**

```
class A:  
    def __init__(self, x= 1):  
        self.x = x  
class der(A):  
    def __init__(self,y = 2):  
        super().__init__()  
        self.y = y  
def main():  
    obj = der()  
    print(obj.x, obj.y)  
main()
```

- a) Error, the syntax of the invoking method is wrong**
- b) The program runs fine but nothing is printed**
- c) 1 0**
- d) 1 2**

**38. What does built-in function type do in context of classes?**

- a) Determines the object name of any value**
- b) Determines the class name of any value**
- c) Determines class description of any value**
- d) Determines the file name of any value**

**39. Which of the following is not a type of inheritance?**

- a) Double-level**
- b) Multi-level**
- c) Single-level**
- d) Multiple**

**40. What does built-in function help do in context of classes?**

- a) Determines the object name of any value**
- b) Determines the class identifiers of any value**
- c) Determines class description of any built-in type**
- d) Determines class description of any user-defined built-in type**

**41. What will be the output of the following Python code?**

```
class A:
```

```
    def one(self):  
        return self.two()
```

```
    def two(self):  
        return 'A'
```

```
class B(A):
```

```
    def two(self):  
        return 'B'
```

```
obj1=A()
```

```
obj2=B()
```

```
print(obj1.two(),obj2.two())
```

- a) A A
- b) A B
- c) B B
- d) An exception is thrown

**42. What type of inheritance is illustrated in the following Python code?**

```
class A():
```

```
    pass
```

```
class B():
```

```
    pass
```

```
class C(A,B):
```

```
    pass
```

- a) Multi-level inheritance
- b) Multiple inheritance
- c) Hierarchical inheritance
- d) Single-level inheritance

**43. What type of inheritance is illustrated in the following Python code?**

```
class A():
```

```
    pass
```

```
class B(A):
```

```
    pass
```

```
class C(B):
```

```
    pass
```

- a) Multi-level inheritance
- b) Multiple inheritance
- c) Hierarchical inheritance
- d) Single-level inheritance

**44. What does single-level inheritance mean?**

- a) A subclass derives from a class which in turn derives from another class
- b) A single superclass inherits from multiple subclasses
- c) A single subclass derives from a single superclass
- d) Multiple base classes inherit a single derived class

**45. What will be the output of the following Python code?**

**class A:**

**def \_\_init\_\_(self):**

**self.\_\_i = 1**

**self.j = 5**

**def display(self):**

**print(self.\_\_i, self.j)**

**class B(A):**

**def \_\_init\_\_(self):**

**super().\_\_init\_\_()**

**self.\_\_i = 2**

**self.j = 7**

**c = B()**

**c.display()**

- a) 2 7
- b) 1 5
- c) 1 7
- d) 2 5

**46. Which of the following statements isn't true?**

- a) A non-private method in a superclass can be overridden
- b) A derived class is a subset of superclass
- c) The value of a private variable in the superclass can be changed in the subclass
- d) When invoking the constructor from a subclass, the constructor of superclass is automatically invoked

**47. What will be the output of the following Python code?**

```
class A:
    def __init__(self,x):
        self.x = x
    def count(self,x):
        self.x = self.x+1
class B(A):
    def __init__(self, y=0):
        A.__init__(self, 3)
        self.y = y
    def count(self):
        self.y += 1
```

```
def main():  
    obj = B()  
    obj.count()  
    print(obj.x, obj.y)  
main()
```

- a) 3 0**
- b) 3 1**
- c) 0 1**
- d) An exception is thrown**

**48. What will be the output of the following Python code?**

```
class A:  
    pass  
class B(A):  
    pass  
obj=B()  
isinstance(obj,A)
```

- a) True**
- b) False**
- c) Wrong syntax for isinstance() method**
- d) Invalid method for classes**

**49. Which of the following statements is true?**

- a) The `__new__()` method automatically invokes the `__init__` method**
- b) The `__init__` method is defined in the object class**
- c) The `__eq(other)` method is defined in the object class**
- d) The `__repr__()` method is defined in the object class**

**50. Method `issubclass()` checks if a class is a subclass of another class.**

- a) True**
- b) False**

**52. What will be the output of the following Python code?**

```
class A:  
    def __init__(self):  
        self.__x = 1  
class B(A):  
    def display(self):  
        print(self.__x)  
def main():  
    obj = B()  
    obj.display()  
main()
```

- a) 1**
- b) 0**
- c) Error, invalid syntax for object declaration**
- d) Error, private class member can't be accessed in a subclass**

**53. What will be the output of the following Python code?**

```
class A:  
    def __init__(self):  
        self._x = 5  
class B(A):  
    def display(self):  
        print(self._x)  
def main():  
    obj = B()  
    obj.display()  
main()
```

- a) Error, invalid syntax for object declaration**
- b) Nothing is printed**
- c) 5**
- d) Error, private class member can't be accessed in a subclass**

**54. What will be the output of the following Python code?**

```
class A:  
    def __init__(self,x=3):  
        self._x = x  
class B(A):  
    def __init__(self):  
        super().__init__(5)  
    def display(self):  
        print(self._x)
```



```
def main():  
    obj = B()  
    obj.display()  
main()
```

- a) 5
- b) Error, class member x has two values
- c) 3
- d) Error, protected class member can't be accessed in a subclass

**55. What will be the output of the following Python code?**

```
class A:  
    def test1(self):  
        print(" test of A called ")  
class B(A):  
    def test(self):  
        print(" test of B called ")  
class C(A):  
    def test(self):  
        print(" test of C called ")  
class D(B,C):  
    def test2(self):  
        print(" test of D called ")  
obj=D()  
obj.test()
```

**a)**

**test of B called**

**test of C called**

**b)**

**test of C called**

**test of B called**

**c) test of B called**

**d) Error, both the classes from which D derives has same method test()**

**56. What will be the output of the following Python code?**

**class A:**

**def test(self):**

**print("test of A called")**

**class B(A):**

**def test(self):**

**print("test of B called")**

**super().test()**

**class C(A):**

**def test(self):**

**print("test of C called")**

**super().test()**

**class D(B,C):**

**def test2(self):**

**print("test of D called")**

**obj=D()**

**obj.test()**

**a)**

**test of B called**

**test of C called**

**test of A called**

**b)**

**test of C called**

**test of B called**

**c)**

**test of B called**

**test of C called**

**d) Error, all the three classes from which D derives has same method test()**

**57. Which of the following best describes polymorphism?**

**a) Ability of a class to derive members of another class as a part of its own definition**

**b) Means of bundling instance variables and methods in order to restrict access to certain class members**

**c) Focuses on variables and passing of variables to functions**

**d) Allows for objects of different types and behaviour to be treated as the same general type**

**58. What is the biggest reason for the use of polymorphism?**

**a) It allows the programmer to think at a more abstract level**

**b) There is less program code to write**

**c) The program will have a more elegant design and will be easier to maintain and update**

**d) Program code takes up less space**

**59. What is the use of duck typing?**

- a) More restriction on the type values that can be passed to a given method**
- b) No restriction on the type values that can be passed to a given method**
- c) Less restriction on the type values that can be passed to a given method**
- d) Makes the program code smaller**

**60. What will be the output of the following Python code?**

```
class A:  
    def __str__(self):  
        return '1'  
  
class B(A):  
    def __init__(self):  
        super().__init__()  
  
class C(B):  
    def __init__(self):  
        super().__init__()  
  
def main():  
    obj1 = B()  
    obj2 = A()  
    obj3 = C()  
    print(obj1, obj2,obj3)  
  
main()
```

- a) 1 1 1**
- b) 1 2 3**
- c) '1' '1' '1'**
- d) An exception is thrown**

**61. What will be the output of the following Python code?**

```
class Demo:  
    def __init__(self):  
        self.x = 1  
    def change(self):  
        self.x = 10  
  
class Demo_derived(Demo):  
    def change(self):  
        self.x=self.x+1  
        return self.x  
  
def main():  
    obj = Demo_derived()  
    print(obj.change())
```

**main()**

- a) 11**
- b) 2**
- c) 1**
- d) An exception is thrown**

**62. A class in which one or more methods are only implemented to raise an exception is called an abstract class.**

- a) True**
- b) False**

**63. Overriding means changing behaviour of methods of derived class methods in the base class.**

- a) True**
- b) False**

**64. What will be the output of the following Python code?**

```
class A:  
    def __repr__(self):  
        return "1"  
class B(A):  
    def __repr__(self):  
        return "2"  
class C(B):  
    def __repr__(self):  
        return "3"  
  
o1 = A()  
o2 = B()  
o3 = C()  
print(obj1, obj2, obj3)
```

- a) 1 1 1**
- b) 1 2 3**
- c) '1' '1' '1'**
- d) An exception is thrown**

**65. What will be the output of the following Python code?**

**class A:**

```
def __init__(self):  
    self.multiply(15)  
    print(self.i)
```

```
def multiply(self, i):  
    self.i = 4 * i;
```

**class B(A):**

```
def __init__(self):  
    super().__init__()
```

```
def multiply(self, i):  
    self.i = 2 * i;
```

**obj = B()**

- a) 15**
- b) 60**
- c) An exception is thrown**
- d) 30**

**66. What will be the output of the following Python code?**

```
class Demo:
```

```
    def check(self):
```

```
        return " Demo's check "
```

```
    def display(self):
```

```
        print(self.check())
```

```
class Demo_Derived(Demo):
```

```
    def check(self):
```

```
        return " Derived's check "
```

```
Demo().display()
```

```
Demo_Derived().display()
```

- a) Demo's check Derived's check**
- b) Demo's check Demo's check**
- c) Derived's check Demo's check**
- d) Syntax error**



**67. What will be the output of the following Python code?**

**class A:**

**def \_\_init\_\_(self):**

**self.multiply(15)**

**def multiply(self, i):**

**self.i = 4 \* i;**

**class B(A):**

**def \_\_init\_\_(self):**

**super().\_\_init\_\_()**

**print(self.i)**

**def multiply(self, i):**

**self.i = 2 \* i;**

**obj = B()**

**a) 15**

**b) 30**

**c) An exception is thrown**

**d) 60**

**68. What will be the output of the following Python code?**

```
class Demo:
```

```
    def __check(self):
```

```
        return " Demo's check "
```

```
    def display(self):
```

```
        print(self.check())
```

```
class Demo_Derived(Demo):
```

```
    def __check(self):
```

```
        return " Derived's check "
```

```
Demo().display()
```

```
Demo_Derived().display()
```

- a) Demo's check Derived's check**
- b) Demo's check Demo's check**
- c) Derived's check Demo's check**
- d) Syntax error**

**69. What will be the output of the following Python code?**

**class A:**

**def \_\_init\_\_(self, x, y):**

**self.x = x**

**self.y = y**

**def \_\_str\_\_(self):**

**return 1**

**def \_\_eq\_\_(self, other):**

**return self.x \* self.y == other.x \* other.y**

**obj1 = A(5, 2)**

**obj2 = A(2, 5)**

**print(obj1 == obj2)**

**a) False**

**b) 1**

**c) True**

**d) An exception is thrown**

**70. What will be the output of the following Python code?**

```
class A:  
    def one(self):  
        return self.two()  
    def two(self):  
        return 'A'  
class B(A):  
    def two(self):  
        return 'B'  
obj2=B()  
print(obj2.two())
```

- a) A**
- b) An exception is thrown**
- c) A B**
- d) B**

**71. Which of the following statements is true?**

- a) A non-private method in a superclass can be overridden**
- b) A subclass method can be overridden by the superclass**
- c) A private method in a superclass can be overridden**
- d) Overriding isn't possible in Python**

**72. Which of these is not a fundamental feature of OOP?**

- a) Encapsulation**
- b) Inheritance**
- c) Instantiation**

#### **d) Polymorphism**

**73. Which of the following is the most suitable definition for encapsulation?**

- a) Ability of a class to derive members of another class as a part of its own definition**
- b) Means of bundling instance variables and methods in order to restrict access to certain class members**
- c) Focuses on variables and passing of variables to functions**
- d) Allows for implementation of elegant software that is well designed and easily modified**

**74. What will be the output of the following Python code?**

**class Demo:**

**def \_\_init\_\_(self):**

**self.a = 1**

**self.\_\_b = 1**

**def display(self):**

**return self.\_\_b**

**obj = Demo()**

**print(obj.a)**

- a) The program has an error because there isn't any function to return self.a**
- b) The program has an error because b is private and display(self) is returning a private member**
- c) The program runs fine and 1 is printed**
- d) The program has an error as you can't name a class member using \_\_b**

**75. What will be the output of the following Python code?**

```
class Demo:  
    def __init__(self):  
        self.a = 1  
        self.__b = 1  
    def display(self):  
        return self.__b  
  
obj = Demo()  
print(obj.__b)
```

- a) The program has an error because there isn't any function to return self.a**
- b) The program has an error because b is private and display(self) is returning a private member**
- c) The program has an error because b is private and hence can't be printed**
- d) The program runs fine and 1 is printed**

**76. Methods of a class that provide access to private members of the class are called as \_\_\_\_\_ and \_\_\_\_\_**

- a) getters/setters**
- b) \_\_repr\_\_/\_str\_\_**
- c) user-defined functions/in-built functions**
- d) \_\_init\_\_/\_del\_\_**

**77. Which of these is a private data field?**

**class Demo:**

**def \_\_init\_\_(self):**

**\_\_a = 1**

**self.\_\_b = 1**

**self.\_\_c\_\_ = 1**

**\_\_d\_\_ = 1**

**a) \_\_a**

**b) \_\_b**

**c) \_\_c\_\_**

**d) \_\_d\_\_**

**78. What will be the output of the following Python code?**

**class Demo:**

**def \_\_init\_\_(self):**

**self.a = 1**

**self.\_\_b = 1**

**def get(self):**

**return self.\_\_b**

**obj = Demo()**

**print(obj.get())**

**a) The program has an error because there isn't any function to return self.a**

**b) The program has an error because b is private and display(self) is returning a private member**

- c) The program has an error because b is private and hence can't be printed
- d) The program runs fine and 1 is printed

**79. What will be the output of the following Python code?**

```
class Demo:  
    def __init__(self):  
        self.a = 1  
        self.__b = 1  
    def get(self):  
        return self.__b  
obj = Demo()  
obj.a=45  
print(obj.a)
```

- a) The program runs properly and prints 45
- b) The program has an error because the value of members of a class can't be changed from outside the class
- c) The program runs properly and prints 1
- d) The program has an error because the value of members outside a class can only be changed as self.a=45

**80. Private members of a class cannot be accessed.**

- a) True
- b) False



**81. The purpose of name mangling is to avoid unintentional access of private class members.**

- a) True**
- b) False**

**82. What will be the output of the following Python code?**

**class fruits:**

**def \_\_init\_\_(self):**

**self.price = 100**

**self.\_\_bags = 5**

**def display(self):**

**print(self.\_\_bags)**

**obj=fruits()**

**obj.display()**

- a) The program has an error because display() is trying to print a private class member**
- b) The program runs fine but nothing is printed**
- c) The program runs fine and 5 is printed**
- d) The program has an error because display() can't be accessed**

**83. What will be the output of the following Python code?**

```
class student:
```

```
    def __init__(self):
```

```
        self.marks = 97
```

```
        self.__cgpa = 8.7
```

```
    def display(self):
```

```
        print(self.marks)
```

```
obj=student()
```

```
print(obj._student__cgpa)
```

- a) The program runs fine and 8.7 is printed**
- b) Error because private class members can't be accessed**
- c) Error because the proper syntax for name mangling hasn't been implemented**
- d) The program runs fine but nothing is printed**

**84. Which of the following is false about protected class members?**

- a) They begin with one underscore**
- b) They can be accessed by subclasses**
- c) They can be accessed by name mangling method**
- d) They can be accessed within a class**

**85. What will be the output of the following Python code?**

**class objects:**

**def \_\_init\_\_(self):**

**self.colour = None**

**self.\_shape = "Circle"**

**def display(self, s):**

**self.\_shape = s**

**obj=objects()**

**print(obj.\_objects\_shape)**

- a) The program runs fine because name mangling has been properly implemented**
- b) Error because the member shape is a protected member**
- c) Error because the proper syntax for name mangling hasn't been implemented**
- d) Error because the member shape is a private member**