Python – Revision

1. WAP to print following patterns from the given string.

   ```
   mystr = "I am in Python class"
   ```

   a. ssalc nohtyP ni ma I

   b. class Python in am I

   c. Class Python In Am I

   d. I ma ni nohtyP ssalc

2. What is output of following code:

   ```python
   def func(x):
       return lambda n: x + n

   f = func
   print(type(f))
   ```

   a. <class 'function'>

   b. <class 'lambda'>

   c. <class 'int'>

   d. <class 'str'>

3. What is output of following code:

   ```python
   def func(x):
       return lambda n: x + n

   f = func(5)
   print(type(f))
   ```

   a. <class 'function'>

   b. <class 'lambda'>

   c. <class 'int'>

   d. <class 'str'>

4. Write a Python function that takes a list of words and returns the longest one.

5. Write a Python program to get a new list, which contains the sum of the individual tuples in the given list.

   Sort the original list based on the sum of the tuples in the list. l = [(2, 5), (1, 2), (4, 4), (2, 3), (2, 7)]

6. Write a Python program to sort (ascending and descending) a dictionary by value.

7. Write a python program to join all elements (Mixed Data) of tuple to form a string. tuple = (1,2,3,4,'a',5.5)

8. What is output of following code:

```python
def func(x):
    return lambda n: x + n

f = func(5)
print(type(f(6)))
```

   a. <class 'function'>

   b. <class 'lambda'>

   c. <class 'int'>

   d. <class 'str'>

9. What is output of following code:

```python
class Employee:

    def __init__(self, name, pay=50000):
        self.name = name
        self.pay = pay
        self.email = "{}@company.com".format(self.name.lower())

    def __str__(self):
        return self.name

e = Employee("Jane")
print(e)
```

   a. Error

   b. Jane

   c. <class 'Employee'>

   d. <__main__.Employee object at 0x0000026743A72F98>

10. Sorting employee objects:

```python
class Employee:
    def __init__(self, name, pay=50000):
        self.name = name
        self.pay = pay
        self.email = "{}@company.com".format(self.name.lower())

    def printDetails(self):
        print("Name :",self.name," \t Salary : ",self.pay," \t Email :",self.email)

    def __str__(self):
        return "{} \t {} \t {}".format(self.name, self.pay, self.email)
```