**PAP Assignment 2015**

1. Examine the following code snippets. Will it generate the same output? Explain.

|  |  |
| --- | --- |
| A = [[10],[20],[30]]  i=0  for i in A:  i = i + [20]  print(A) | A = [[10],[20],[30]]  i=0  for i in A:  i += [20]  print(A) |

1. What is the output of the following code? Explain briefly.

def f(n):

def fun(f):

def inner(x):

return f(x+n)

return inner

return fun

@f(10)

def f1(x):

print(x\*\*2)

f1(11)

1. Will the following code generate error? If yes, why? If no, what is the output?

|  |  |
| --- | --- |
| class A:  def \_\_init\_\_(self,a):  self.a = 20  class B(A):  def fun(self):  print(self.a)    b = B(10)  b.fun() | class A:  a=25  def \_\_init\_\_(self,a):  self.a = 20  class B(A):  def fun(self):  print(B.a)    b = B()  b.fun() |

1. Write a program using PLY to check whether a given expression has well-formed parentheses (Parentheses must be balanced, for every opening parenthesis there must be one closing parenthesis of the same type). Consider all types of brackets [], {}, (). Assume the input string contains no other characters. Take one example and show all steps.