LAB # 08

Listing

**EXERCISE**

1. **Point out the errors, if any, and paste the output also in the following Python programs.**
2. Code

|  |
| --- |
| Def max\_list( list ):  max = list[ 0 ]  for a is in list:  elif a > max:  max = a  return max  print(max\_list[1, 2, -8, 0]) |

Output

|  |
| --- |
| Capital D in def function , elif should be replaced by if and print should not be ther in the call function. |

2. Code

|  |
| --- |
| motorcycles = {'honda', 'yamaha', 'suzuki'}  print(motorcycles)  del motorcycles(0)  print(motorcycles) |

Output:

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| --- |
| In list [] are used istead of {}and in line3 index is also called by []. |

3. Code

|  |
| --- |
| Def dupe\_v1(x):  y = []  for i in x:  if i not in y:  y(append(i))  return y  a = [1,2,3,4,3,2,1]  print a  print dupe\_v1(a) |

Output:

|  |
| --- |
| Capital D in def function , append function is used as (.append) and brackets are missing in print function in line 9 |

1. **What will be the output of the following programs:**
2. Code

|  |
| --- |
| list1= [1,2,4,5,6,7,8]  print("Negative Slicing:",list1[-4:-1])  x = [1, 2, 3, 4, 5, 6, 7, 8, 9]  print("Odd number:", x[::2]) |

Output

|  |
| --- |
|  |

1. Code

|  |
| --- |
| def multiply\_list(elements):  t = 1  for x in elements:  t\*= x  return t  print(multiply\_list([1,2,9])) |

Output

|  |
| --- |
|  |

1. Code

|  |
| --- |
| def add(x,lst=[] ):  if x not in lst:  lst.append(x)  return lst  def main():  list1 = add(2)  print(list1)  list2 = add(3, [11, 12, 13, 14])  print(list2)  main() |

Output

|  |
| --- |
|  |

**C. Write Python programs for the following**:

1. Write a program that store the names of a few of your friends in a list called ‘names’. Print each person’s name by accessing each element in the list, one at a time.

**SOURCE CODE:**

|  |
| --- |
| print("\t \*\*\*Names of my Friends\*\*\*")  names=["Talal Moin","Abdul Moiz Khan","Shaheer Khan Qureshi","Komal Shakeel","Tooba Shakeel","Asma Hashim Khan"]  for i in names:  print (i) |

**OUTPUT:**

|  |
| --- |
|  |

2. Write a program that make a list that includes at least four people you’d like to invite to dinner. Then use your list to print a message to each person, inviting them to dinner. But one of your guest can’t make the dinner, so you need to send out a new set of invitations. Delete that person on your list, use ***del statement*** and add one more person at the same specified index, use the ***insert( )*** method. Resend the invitation.

**CODE:**

|  |
| --- |
| #Sending Invitation to the guests  print("\*\*\*\tInvitation to the Guests\t\*\*\*\n")  guest\_list=["Talal ","Abdul Moiz Khan","Shaheer","Owais Ahmed"]  for i in guest\_list:  print("->",i,"I invite u on dinner at 10:00 clock ")  #A guest cannot come to the dinner  print("\n\n>>>",guest\_list[3],"can't come at dinner <<<\n\n")  #adding a guest to the list and removing the old guest  guest\_list[guest\_list.index("Owais Ahmed")]="Naveed"  print("\*\*\*\tResending Invitation to the Guests\t\*\*\*\n")  for x in guest\_list:  print("->",x,"I invite u on dinner at 10:00 clock") |

**OUTPUT:**

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| --- |
|  |

3. Write a program that take list = [30, 1, 2, 1, 0], what is the list after applying each of the following statements? Assume that each line of code is independent.

* list.append(40)

**Code:**

|  |
| --- |
| list = [30, 1, 2, 1, 0]  list.append(40)  print(list) |

**Output:**

|  |
| --- |
|  |

* list.remove(1)

**Code:**

|  |
| --- |
| list = [30, 1, 2, 1, 0]  list.remove(1)  print(list) |

**Output:**

|  |
| --- |
|  |

* list.pop(1)

**Code:**

|  |
| --- |
| list = [30, 1, 2, 1, 0]  list.pop(1)  print(list) |

**Output:**

|  |
| --- |
|  |

* list.pop()

**Code:**

|  |
| --- |
| list = [30, 1, 2, 1, 0]  list.pop()  print(list) |

**Output:**

|  |
| --- |
|  |

* list.sort()

**Code:**

|  |
| --- |
| list = [30, 1, 2, 1, 0]  list.sort()  print(list) |

**Output:**

|  |
| --- |
|  |

* list.reverse()

**Code:**

|  |
| --- |
| list = [30, 1, 2, 1, 0]  list.reverse()  print(list) |

**Output:**

|  |
| --- |
|  |

4. Write a program to define a function called ‘printsquare’ with no parameter, take first 7 integer values and compute their square and stored all square values in the list.

**CODE:**

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| --- |
| def printsquare():  a=list()  for i in range(1,8):  a.append(i\*\*2)  print(a)  printsquare() |

**OUTPUT:**

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