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Subject: Modern Programing Language

Mid Term Assignment

Q1: Print IQRA using 16-bit Unicode (Hint: Escape Character)

Hex values

 I=0049

Q=0051

R=0052

A=0041

Answer:

print("\u0049\u0051\u0052\u0041")

Q2: Suppose you have a string "Iqra National University" stored in a variable a.

Write a program that

• Converts the string into a List

• Insert an Element "Peshawar" at the end

• Sort the list

• Prints Abbreviation of the first 3 Elements and the 4rth Element complete

  each separated by a dot.

Output should be **I.N.U.Peshawar**

Note: You cannot use another variable

Answer:

a = 'Iqra Naional University'.split()

a.append("Peshawar")

a.sort()

print(a)

print(a[0][0]+"."+a[1][0]+"."+a[3][0]+"."+a[2])

Q3: Suppose You have a list a=[[4,5,9], [1,5,3], [0,8,12], [3,1,9]] Write a program that finds the list whose sum of elements is highest

Answer:

```
a = [[4,5,9], [1,5,3], [0,8,12], [3,1,9]]
print(max(a, key=sum))
```

Q4: Write a program that inputs a Student ID 5 times and determines how many Student ID's are valid. For the purpose of this question a valid Student ID is defined as follows:

• exactly 6 characters long
• begins with the uppercase characters 'INU'
• all characters beside the beginning 'INU' character must be numbers

Answer:

```
ids = []
for i in range(5):
    id = input("Enter ID:")
    ids.append(id)
valid = 0
for id in ids:
    if id[:3] == 'INU' and id[3:].isnumeric():
        valid += 1
print("There are", valid, "valid IDs")
```

Q5: Write a program that takes a string from the user and then print a new string by changing lowercase letters to uppercase letters and uppercase letters to lowercase letters. **[Hint: Import String Class]**

Answer:

```
import string
string = input("Enter String: ")
print(string.swapcase())
```