**Week 5- Programs on Iterative constructs, Lists and Tuples**

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| Program 1 | Separate the following list to different lists based on following criteria   1. starts with 'pizza' 2. Ends with 'puri' 3. Ends with 'dosa'   Input: l=['pani puri','dosa','bhel puri','masala dosa','dahi puri','rava dosa','pizza topings','pizza mania'] |
|  | **Algorithm**  **i)create 3 different lists**  **ii)use if function**  **iii)use append function**  **iv)use print function** |
|  | **Program with output** |
|  | **Output** |
| Program 2 | 1. Print the given data in the string as formal letter, with one sentence in each line. 2. display given list of data as mac address. mac=['00','11','23','45','67','70'] 3. send festival greetings to friends all friends in the list 4. Given , Srn’s as strings each separated by space, replace PESU in place of PE in first 3 srn’s. also find if user given srn is present or not. |
|  | **Algorithm**  **a)**  **use \n to create new line and print the string as a formal letter**  **b)**  **use the join function to join : after each index**  **c)**  **use join function to join happy festival after each index**  **d)use replace for replacing all the** |
|  | **Program** |
|  | **Output** |
| Program 3 | 1. given list of captains and teams(in respective order) assign them to IPL Teams. 2. Given list of tuples, where each tuple takes pattern (name,marks) of a student, display only names. |
|  | **Algorithm**  **a)**  **1) input the list**  **2)assign the list using zip function**  **b)**  **1)take a list of tuples**  **2)and use the zip function to display only the names** |
|  | **Program** |
|  | **Output** |
| Program 4 | 1. Given mohanDas Karamchand gandhi' print i)"m K gandhi" ii) M K GANDHI iii) M K Gandhi iv) Mohandas Karamchand Gandhi 2. **Given s = "bad python bad teacher bad lecture"** 3. **Replace all occurrences of bad to good** 4. **Replace first occurrence of bad to good** 5. **find the leftmost bad** 6. **find the second bad from left** 7. **Replace the second bad to worst and display from that point of string and also display the whole string** |
|  | **Algorithm**  **a**  **1 ) use the split function and then list**  **2) upper function to convert to uppercase**  **3) and print the function**  **b)**  **1)given the string**  **2) use replace function to replace bad with good**  **3) print the output** |
|  | **Program** |
|  | **Output** |
| Program 5 | 1. String encoding 2. the first letter of each word is printed at the end. 3. In the second case, after each character, a p is printed. |
|  | **Algorithm**  **I)**  **1)choose the given string**  **2)use the split function**  **ii)use line break** |
|  | **Program** |
|  | **Output** |