**Week 6- Programs on dictionary and File**

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| Program 1 | Write a program to print a dictionary where the keys are numbers between 1 and 15 and the values are cube of keys. |
|  | **Algorithm:**  Step 1 =take the input from the user  Step 2 = open an dictionary  Step 3 = calculate the cube using power |
|  | **Program :** |
|  | Output: |
| Program 2 | Construct dictionary phone\_book with :  Key:number of entries, Values: (name, phone number, email, address) and perform the following operations:  i) Add a new number to phone book  ii) delete number from phone book. |
|  | **Algorithm:**  Step 1 = given the values  Step 2 = print the phone book  Step 3 = add a new entry to phonebook  Step 4 = use del function for deleting |
|  | **Program:** |
|  | Output : |
| Program 3 | Given list of students, marks for phy, chem, maths and biology form a dictionary where key is SRN and values is dictionary containing PCMP marks of respective student. |
|  | **Algorithm**  Step 1 = for the given data  Step 2 = use a for function |
|  | **Program:** |
|  | Output: |
| Program 4 | a)Read movie data from mov1.csv file. CSV file mov1.csv has three columns c1 has year,c2 has rating,c3 has movie name.  b) write year of release and movie name from mov1.csv to a text file |
|  | **Algorithm**  Step 1 = Take the mov1.csv file then  Step 2 = read the values  Step 3 = use readline,strip,split function |
|  | **Program** |
|  | **Output**  **A)**        **B)** |
| Program 5 | From file mov1.csv make a dictionary with Key as year and values as name of movies released in that year. |
|  | **Algorithm**  Step 1 = read the mov1.csv file  Step 2 = use for function  Step 3 = use if function  Step 4 = use the print function  **Program** |
|  | **Output** |
| Program 6 | In the given dictionary find total marks and percentage  **{'PECS001': {'phy': 79, 'chem'**: 99, 'mat': 84, 'Bio': 84}, 'PECS015': {'phy': 79, 'chem': 99, 'mat': 84, 'Bio': 84}, 'PECS06**5': {'phy': 79, 'chem': 99, 'mat': 84, 'Bio': 84}, 'PECS035': {'phy': 79, 'chem': 99, 'mat': 84, 'Bio': 84}, 'PECS038': {'phy': 79, 'chem': 99, 'mat': 84, 'Bio': 84}}** |
|  | **Algorithm**  Step 1 = open a new dictionary for the new data  Step 2 = calculate the percentage total marks etc  Step 3 = print the total marks of the submit |
|  | Program |
|  | **Output** |