# SET - 1

Q1. Write a menu driven program in python language which takes an integer number as input and as per user choice checks whether the number is a prime number(having only 2 factors) or a palindromic number (reverse of the number is equal to the original number). **(8)**

Distribution of marks for the code is as follows:

Logic: 60% Documentation: 20 % Code Quality: 20% Sample Output:

Manu

1. To check if the no. is prime no.
2. To check if the no. is palindromic Enter choice: 1

Enter no. : 23 No. is prime

Q2. Consider the following tables STORE and SUPPLIERS. Write SQL commands for the statements (a) to (d) . (**4) Table: STORE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ItemNo** | **Item** | **Scode** | **Qty** | **Rate** | **LastBuy** |
| 2005 | Sharpner Classic | 23 | 60 | 8 | 31-Jun-09 |
| 2003 | Ball Pen 0.25 | 22 | 50 | 25 | 01-Feb-10 |
| 2002 | Gel Pen Premium | 21 | 150 | 12 | 24-Feb-10 |
| 2001 | Eraser Small | 22 | 220 | 6 | 19-Jan-09 |
| 2009 | Ball Pen 0.5 | 21 | 180 | 18 | 03-Nov-09 |

# Table: SUPPLIERS

|  |  |
| --- | --- |
| **Scode** | **Sname** |
| 21 | Premium Stationary |
| 23 | Soft Plastics |
| 22 | Tetra Supply |

1. Display details of all the items in the Store table in ascending order of LastBuy.
2. Display Item no and item name from store table whose rates arein the range of 15 to 30 rupees.
3. Display the details of those items whose supplier code is 22 or Quantity in store is more than 110 from the table Store.
4. Display minimum rate of items for each Supplier individually as per Scode from the table Store.

# PRACTICAL FILE – 7 PROJECT WORK – 8 VIVA - 3

**SET - 2**

Q1. Write a program in python language to display the given pattern: (**8)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | |  |  | **5** |
|  | **4** | **5** |
| **3** | **4** | **5** |
|  | **2** | **3** | **4** | **5** |
| **1** | **2** | **3** | **4** | **5** |

Distribution of marks for the code is as follows:

Logic : 60% Documentation : 20 % Code Quality : 20%

Q2. Consider the following tables DOCTOR and SALARY. Write SQL commands for the statements (a) to (d) (**4) TABLE: DOCTOR**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **NAME** | **DEPARTMENT** | **GENDER** | **EXPERIENCE** |
| 101 | John | ENT | M | 12 |
| 104 | Smith | ORTHOPEDIC | M | 5 |
| 107 | George | CARDIOLOGY | M | 10 |
| 114 | Lara | SKIN | F | 3 |
| 109 | K George | MEDICINE | F | 9 |
| 105 | Johnson | ORTHOPEDIC | M | 10 |

# TABLE: SALARY

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **BASIC** | **ALLOWANCE** | **CONSULTATION** |
| 101 | 12000 | 1000 | 300 |
| 104 | 23000 | 2300 | 500 |
| 107 | 32000 | 4000 | 500 |
| 114 | 12000 | 5200 | 100 |

1. Display the details of all female doctors who are in “MEDICINE”.
2. Display the name of the doctor who have experience in the range of 5 to 10 years
3. Display the highest consultation fee among all male doctors.
4. Display the ID, Name,Basic and consulation of all the doctors.

# SET - 3

Q1. Write a menu driven program in python language which takes a string as input and as per user choice counts the number of uppercase and lowercase alphabets in the string or checks if the string is palindromic (reverse of the string is equal to the original string). **(8)**

Distribution of marks for the code is as follows:

Logic : 60% Documentation : 20 % Code Quality : 20% Sample Output:

Manu

* 1. To count the no. of uppercase and lowercase alphabets.
  2. To check if the string is palindromic Enter choice : 1

Enter the string : Computer

Uppercase alphabets : 1 Lowercase alphabets : 7

Q2. Consider the following tables FLIGHTS and FARES. Write SQL commands for the statements (a) to (d) (**4) TABLE: FLIGHTS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **FL\_NO** | **STARTING** | **ENDING** | **NO\_FLIGHTS** | **NO\_STOPS** |
| IC301 | MUMBAI | DELHI | 8 | 0 |
| IC799 | BANGALORE | DELHI | 2 | 1 |
| MC101 | INDORE | MUMBAI | 3 | 0 |
| IC302 | DELHI | MUMBAI | 8 | 0 |
| AM812 | KANPUR | BANGALORE | 3 | 1 |

# TABLE: FARES

|  |  |  |  |
| --- | --- | --- | --- |
| **FL\_NO** | **AIRLINES** | **FARE** | **TAX%** |
| MU499 | Sahara | 9400 | 5 |
| IC302 | Indian Airlines | 4300 | 10 |
| IC799 | Indian Airlines | 10500 | 10 |
| MC101 | Decan Airlines | 3500 | 4 |

1. Display FL\_NO and NO\_FLIGHTS from “KANPUR” to “BANGALORE” from the table FLIGHTS.
2. Display the contents of table FLIGHTS in the ascending order of FL\_NO.
3. Display the minimum fare offered by the different airlines.
4. Display the FL\_NO, NO\_FLIGHTS , AIRLINES and TAX of all the flights.