

**KV SEC 25 ROHINI, DELHI-110085**

**Winter holidays home work**

**Computer sc XI A**

1. Write a program to search a particular value in a single dimensional array
2. Write a program to store 10 elements and increase its value by 5 and show the array.
3. Write the program to divide each of the array element by 3 and show the array
4. Write a program to find the average of all elements of an array of size 20.
5. Write a program to find second minimum value out of an array containing 10 elements.
6. Write a program to count total number of vowels present in a string
7. Convert the following code segment into switch case construct.

```
int ch;
cin>>ch;
If(ch == 1)
{ cout<<" Laptop";
}
else If(ch == 2)
{
cout<<"Desktop ";
} else if(ch== 3)
{
cout<<"Notebook";
} else
{
cout<<"Invalid Choice";
}
}
```

8. Convert the following code segment into do-while loop. 3  

```
#include<iostream.h>
void main()
{ int i;
for(i=1; i<=20; ++i)
cout<<"\n"<<i;
}
```

**XI B INFORMATICS PRACTICES**

- 1 The following GUI form is created in Netbeans for a Book Store where customers are given discount as follows:

Book Type	Discount %	Name of RadioButton
Magazine	2%	magRB
General	3%	genRB
CBSE	4%	cbseRB

An additional discount of 2% is given if the total amount exceeds 1999.(refer GUI diagram)

Now answer the following:

- 2 Write the SQL commands for the i) to iv) and write the output of the v) and vi) on the basis of table TEACHER.

Table:TEACHER

No.	Name	Age	Department	Dateofad m	Salary	Sex
1	Jugal	34	Computer	10/01/97	12000	M
2	Sharmila	31	History	24/03/98	20000	F
3	Sandeep	32	Maths	12/12/96	30000	M
4	Sangeeta	35	History	01/07/99	40000	F
5	Rakesh	42	Maths	05/09/97	25000	M
6	Shyam	50	History	37/06/98	30000	M
7	Shivam	44	Computer	25/02/97	21000	M
8	Shalakha	33	Maths	31/07/97	20000	F

- (i) To show all information about the teacher of History department.  
(ii) To display the list of all male teachers who are in Maths department.

- (iii) To display Names, Age and Sex of all teachers with their date of admission in descending order.
- (iv) To insert a new row in the TEACHER table with the following data:  
9,'Raja', 26,'Computer', {13/05/95}, 23000,'M'
- (v) Select COUNT(DISTINCT department) from TEACHER;
- (vi) Select MIN(Age) from TEACHER where SEX='F';

3.

Object type	Object name
Text fields	jTextAmount jTextDiscount jTextNetamount
Buttons	jButtonCal jButtonExit jButtonClear
Radio buttons	jRadioCash jRadioCheque jRadioCredit

- a) Write command to clear all the text fields, hide the button jButtonExit and disable the text field jTextNetamount.
- b) Write command to unhide the button jButtonExit and enable the text field jTextNetamount.
- c) Write command to exit from the application.
- d) Write command to calculate the discount and net amount according to the following criteria.

(Net amount=amount-discount).

Transaction Mode	Amount	Discount
Cash	> = 100000	5%
	< 100000	4%
Check	> = 100000	4%
	< 100000	3%
Credit Card	> = 100000	3%
	< 100000	2%

4.

Write the output of the following SQL queries:

- i. SELECT INSTR('INTERNATIONAL', 'NA');
- ii. SELECT LENGTH(CONCAT('NETWORK', 'ING'));
- iii. SELECT ROUND(563.345, -2);
- iv. SELECT DAYOFYEAR('2014-01-30');

5.

Pranay, created a table named "Friends" to store his friend's detail.

S_No	Name	Age	City	Country	Email_id
1	Alice	14	Washington	USA	<a href="mailto:alice@gmail.com">alice@gmail.com</a>
2	Charles	12	Copenhagen	Denmark	<a href="mailto:harles@yahoo.com">harles@yahoo.com</a>
3	Angel	16	Chicago	USA	<a href="mailto:angel@gmail.com">angel@gmail.com</a>
4	Jasmine	15	Sydney	Australia	<a href="mailto:jasmine@yahoo.com">jasmine@yahoo.com</a>
5	Raj	14	New Delhi	India	<a href="mailto:raj@gmail.com">raj@gmail.com</a>
6	Jette	13	Nykobing	Denmark	<a href="mailto:jette@gmail.com">jette@gmail.com</a>
7	Alexender	15	Melbourne	Australia	NULL
8	Shashank	16	Banglore	India	NULL

Write commands in SQL for (i) to (iv) and output for (v) to (vii).

- i. To display list of all foreigner friends.
- ii. To list name, city and country in descending order of age.
- iii. To count how many friends have email id on gmail.
- iv. To list name and city of those friends who don't have an email id.
- v. Select name, country from friends where age > 12 and name like 'A%';
- vi. Select ucase(concat(name, "\*", city)) from friends where country 'Denmark';
- vii. Select mid(name, 1, 4) as "UID" from friends where country like 'USA';

6.

Write the SQL Command to create table Product including its constraints :

Table : Product

Name of Column	Type Size	Constraint
P_Id	Decimal 4	Primary Key
P_Name	Varchar 20	-

P_Company	Varchar30	-
Price	Decimal 8	Not Null

7.

Consider the table Shoppe, Write command in MYSQL for (i) to (iii) & Output for (iv) to (vi):

Table Shoppe :

Code	Item	Company	Qty	City	Price
102	Biscuit	Hide & Seek	100	Delhi	10.00
103	Jam	Kissan	110	Kolkata	25.00
101	Coffee	Nestle	200	Kolkata	55.00
106	Sauce	Maggi	56	Mumbai	55.00
107	Cake	Britannia	72	Delhi	10.00
104	Maggi	Nestle	150	Mumbai	10.00
105	Chocolate	Cadbury	170	Delhi	25.00

- i) To display the names of the items, whose name starts with "C" in ascending order of Price.
- ii) To display the Code, names of the items, whose quantity is less than 100.
- iii) To count distinct company from the table.
- iv) SELECT Item from Shoppe where item IN ( " Jam, Coffee);
- v) Select Count(City) distinct from Shoppe;
- vi) Select MIN(Price) from Shoppe where city ="Mumbai";