**JAVA PROGRAM**

**QUESTION NO:04 WRITE A PROGRAM THAT DETECTS THE DUPLICATE CHARACTER IN A STRING?**

**import** java.util.\*;

**public** **class** DuplicateCharcater {

**public** **static** **void** main(String args[]){

Scanner sc=**new** Scanner(System.*in*);

System.*out*.println("Enter the string:");

String str=sc.nextLine();

**char**[] ch=str.toCharArray();

**int** length=str.length();

**for**(**int** i=0;i<length;i++){

**for**(**int** j=i+1;j<length;j++){

**if**(ch[i]==ch[j]){

System.*out*.println("Duplicate character is: "+ch[j]);

**break**;

}

}

}

}

}

**OUTPUT:**

Enter the string:

how are you?

Duplicate character is: o

**QUESTION NO:16 HOW TO SORT ARRAY IN JAVA?**

**import** java.util.\*;

**public** **class** ArraySort {

**public** **static** **void** main(String[] args) {

**int**[] array=**new** **int**[]{10,223,256,567,520,12};

Arrays.*sort*(array);

System.*out*.println("Array Sorted in:");

**for**(**int** i=0;i<array.length;i++){

System.*out*.print(array[i]+" ");

}

}

}

**OUTPUT:**

Array Sorted in:

10 12 223 256 520 567

**QUESTION NO:78 HOW TO CREATE PRIORITY QUEUE PROGRAM IN JAVA?**

**import** java.util.\*;

**public** **class** Queue {

**public** **static** **void** main(String[] args) {

PriorityQueue<Integer> p=**new** PriorityQueue<Integer>();

p.add(15);

p.add(50);

p.add(30);

p.add(20);

System.*out*.println(p);

System.*out*.println("head is:"+p.peek());

System.*out*.println("poll removed value is:"+p.poll());

System.*out*.println("after poll removal: "+p);

}

}

**OUTPUT:**

[15, 20, 30, 50]

head is:15

poll removed value is:15

after poll removal: [20, 50, 30]

**SQL Queries**

EMPNO ENAME DOJ JOB SAL COMM MGRID DEPTNO

---------- -------------------------------------------------- --------- --------- ---------- ---------- ---------- ------------------

101 sugumaran 19-NOV-05 MD 50000

102 sarguna 15-OCT-06 manager 25000 111 20

103 halid 10-MAY-07 sales man 18000 6000 112 10

104 vikram 05-MAY-08 clerk 8000 2000 112 10

105 suriya 14-MAR-06 sales man 15000 2000 111 10

106 vivek 15-MAY-08 associate 24000 7500 113 30

107 sharath 12-AUG-09 executive 22000 6500 113 30

108 kali 28-FEB-09 associate 24000 6500 113 30

109 mukilan 28-MAR-10 j.manager 22000 111 20

110 moorthy 12-DEC-11 trainee 18000 1000 114 40

111 ramraj 02-NOV-12 trainee 17500 1000 114 40

**QUESTION NO:03 WRITE A SQL QUERY TO RENAME THE COLUMN NAME.**

**SQL> alter table emp rename column sal to salary;**

EMPNO ENAME DOJ JOB SALARY COMM MGRID DEPTNO

---------- -------------------------------------------------- --------- --------- ---------- ---------- ---------- ---------- ------- ----------

101 sugumaran 19-NOV-05 MD 50000

102 sarguna 15-OCT-06 manager 25000 111 20

103 halid 10-MAY-07 sales man 18000 6000 112 10

104 vikram 05-MAY-08 clerk 8000 2000 112 10

105 suriya 14-MAR-06 sales man 15000 2000 111 10

106 vivek 15-MAY-08 associate 24000 7500 113 30

107 sharath 12-AUG-09 executive 22000 6500 113 30

108 kali 28-FEB-09 associate 24000 6500 113 30

109 mukilan 28-MAR-10 j.manager 22000 111 20

110 moorthy 12-DEC-11 trainee 18000 1000 114 40

111 ramraj 02-NOV-12 trainee 17500 1000 114 40

**QUESTION NO:07 PRINT MAXIMUM SALARY FOR A PARTICULAR DEPARTMENT**

**select deptno,max(salary) from emp group by deptno**;

DEPTNO MAX(SALARY)

---------- -----------

50000

30 24000

20 25000

40 18000

10 18000

**QUESTION NO:10 WHAT IS THE QUERY TO DISPLAY THE LAST 5 RECORDS FROM THE EMPLOYEE TABLE?**

**select \* from emp where rownum<=5 order by empno desc;**

EMPNO ENAME DOJ JOB SALARY COMM MGRID DEPTNO

---------- ---------------------------- ---------------------- --------- --------- ---------- ---------- ---------------

111 ramraj 02-NOV-12 trainee 17500 1000 114 40

110 moorthy 12-DEC-11 trainee 18000 1000 114 40

109 mukilan 28-MAR-10 j.manager 22000 111 20

108 kali 28-FEB-09 associate 24000 6500 113 30

107 sharath 12-AUG-09 executive 22000 6500 113 30