Module 4

Home Work

**Finding a Character**

**Description**

Write a program to count the number of instances a character appears in an input string.

char[] chars = sentence.toCharArray();

int counter=0;

for(int i=0;i<chars.length;i++)

{

if(chars[i] == word)

counter++;

}

System.out.println(counter);

CODING QUESTIONS

**Gmail Id**

**Description**

Write a program that takes the first name of a user and generates their Gmail ID. The domain is gmail.com.

Scanner sc = new Scanner(System.in);

String userName = sc.nextLine();

String mailId = userName + "@gmail.com";

System.out.println(mailId);

**Reversing a String**

**Description**

Write a program to reverse an input string.

char[] chars = input.toCharArray();

int position= chars.length - 1;

for(int i = position ; i>=0 ; i--)

{

System.out.print(chars[i]);

}

}

**Authentication**

**Description**

Paul is the administrator of a network and is trying to log in to the network. Write a program to verify whether the user logging into the network is Paul or not.

if(input.equals(admin))

System.out.println("Welcome Admin");

else

System.out.println("Access Denied");

}

**Searching an Element**

**Description**

Write a program to search a number in the array given below.

numberArray = {1,15,90,40,35,63,79,88,20};

int position = 0;

for(int i=0; i<numberArray.length; i++)

{

if(numberArray[i] == n)

{

position = i+1;

System.out.println(position);

break;

}

int post = numberArray.length - 1;

if(i == post && numberArray[i] != n)

{

System.out.println("Number not found");

}

}

**Multiplication Table**

**Description**

Create a multiplication table that has the 10 multiples of 1, 2 and 3 in an array. Print all the multiples greater than 20.

int[][] table = {

{1, 2, 3, 4, 5, 6, 7, 8, 9, 20},

{2, 4, 6, 8, 10, 12, 14, 16, 18, 20},

{3, 6, 9, 12, 15, 18, 21, 24, 27, 30},

};

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

for(int j = 0; j < table[i].length; ++j) {

if(table[i][j] > 20)

System.out.println(table[i][j]);

}

}