PRACTICAL-1

Program Code:

```
import java.util.*;
class Vowels_practice
{
	public static void main(String[] args)
	{
		String str="1111111212ABCDEIOUFGFDGEabcdeiuoeioe1212121";
		int count=0;
		for(int i=0;i<str.length();i++)
		{
			char c=str.charAt(i);

	if(c=='A'||c=='E'||c=='I'||c=='O'||c=='U'||c=='a'||c=='e'||c=='i'||c=='o'||c=='u')
				count++;
			else
				continue;
		}
			System.out.println("Number of vowels : "+count);

	}
}
```

Output:

```
C:\Java\JAVA_practicals>javac Vowels_practice.java

C:\Java\JAVA_practicals>java Vowels_practice
Number of vowels : 15
```

PRACTICAL-2

Program Code:

```
import java.util.*;
class Find_practice
{
	public static void main(String[] args)
	{
		int count_char=0,count_digit=0,count_symbol=0;
		String str="Depstar @2020";
		for(int i=0;i<str.length();i++)
		{
			char c=str.charAt(i);
			if (c>='A' && c<='z')
				count_char++;
			else if(c>='0' && c<='9')
				count_digit++;
			else if(c!=' ')
				count_symbol++;
			else
				continue;
			}
			System.out.println("Total Characters : "+count_char);
			System.out.println("Total Digit : "+count_digit);
			System.out.println("Total Symbols :"+count_symbol);
	}
}
```

Output:

```
C:\Java\JAVA_practicals>javac Find_practice.java

C:\Java\JAVA_practicals>java Find_practice
Total Characters : 7
Total Digit : 4
Total Symbols :1
```

PRACTICAL-3

Program Code:

```
import java.util.*;
class Check_Password
{
	public static void main(String[] args)
	{
		int count_upper=0,count_digit=0,count_symbol=0,count_lower=0;
		Scanner input=new Scanner(System.in);
		System.out.print("Enter your password : ");
		String str=input.nextLine();
		if(str.length()<8)
			System.out.println("Your password is invalid, Please select a strong password");
		else{
		for(int i=0;i<str.length();i++)
		{
			char c=str.charAt(i);
			if (c>='A' && c<='Z')
				count_upper++;
			else if(c>='a'&&c<='z')
				count_lower++;
			else if(c>='0' && c<='9')
				count_digit++;
			else if(c!=' ')
				count_symbol++;
			else
				continue;
		}
```

```
                if(count_upper>=1 && count_digit>=1 &&
count_symbol>=1&&count_lower>=0)
                        System.out.println("Your password satisfied all the
conditions\nPassword accepted");
                else
                        System.out.println("Your password is invalid, Please select a strong
password");
        }
}
}
```

Output:

```
C:\Java\JAVA_practicals>javac Check_Password.java

C:\Java\JAVA_practicals>java Check_Password
Enter your password : Parth#70
Your password satisfied all the conditions
Password accepted
```

PRACTICAL-4

Program Code:

```
import java.util.*;
class String_anagram
{
	public static void main(String[] args)
	{
		Scanner input=new Scanner(System.in);
		System.out.print("Enter the string 1 : ");
		String str1=input.nextLine();
		System.out.print("Enter the string 2 : " );
		String str2=input.nextLine();
		char str1_array[]=str1.toCharArray();
		Arrays.sort(str1_array);
		char str2_array[]=str2.toCharArray();
		Arrays.sort(str2_array);
		if(Arrays.equals(str1_array,str2_array))
			System.out.println(str1+" and "+str2+" are anagrams");
		else
			System.out.println(str1+" and "+str2+" are not anagrams");
	}
}
```

Output:

```
C:\Java\JAVA_practicals>javac String_anagram.java

C:\Java\JAVA_practicals>java String_anagram
Enter the string 1 : ABCD
Enter the string 2 : DCBA
ABCD and DCBA are anagrams
```