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Branch: Information Technology **Div: D/IT1**

Course: **Object Oriented Programming using Java**

Experiment no. 3

Aim: To implement Strings

Problem Statement 1:

WAP to find out number of uppercase & lowercase characters, blank spaces and digits from the string.

Code:

```
import java.util.*;
public class Space
{
	public static void main(String[] args)
	{
		Scanner obj=new Scanner(System.in);
		int count=0;
		int count1=0;
		int count2=0;
		int count3=0;
		System.out.println("Enter string");
		String name=obj.nextLine();
		for(int i=0;i<name.length();i++)
		{
			if(name.charAt(i)==32)
				count++;
			else if(name.charAt(i)>=48 && name.charAt(i)<=57)
				count3++;
			else if(name.charAt(i)==name.toLowerCase().charAt(i))
				count1++;

			else if(name.charAt(i)==name.toUpperCase().charAt(i))
				count2++;
```

```
                    else
{
                                System.out.println("Enter valid string");}
                }
                System.out.println("No of space are "+count);
                System.out.println("No of UPPERCASE are "+count2);
                System.out.println("No of lowercase are "+count1);
                System.out.println("No of digits are "+count3);
        }
}
```

Output

```
C:\Users\91720\OneDrive\Desktop\Anish Java>java Space
Enter string
Anish Sharma 60003220045
No of space are 2
No of UPPERCASE are 2
No of lowercase are 9
No of digits are 11
```

Problem Statement 2:

WAP to count the frequency of occurrence of a given character in a given line of text.

Code:

```
import java.util.*;
public class Frequency
{
	public static void main(String[] args)
	{
		Scanner obj=new Scanner(System.in);
		int count=0;
		System.out.println("Enter string");
		String name=obj.nextLine();
		System.out.println("Enter charatcer");
		char character=obj.next().charAt(0);

		for(int i=0;i<name.length();i++)
		{
			if(name.charAt(i)==character)
				count++;
		}
		System.out.println("Frequency of "+character+" of "+name+" is "+count);
	}
}
```

Output

```
C:\Users\91720\OneDrive\Desktop\Anish Java>java Frequency
Enter string
Hello Anish Sharma
Enter charatcer
a
Frequency of a of Hello Anish Sharma  is 2
```

Problem Statement 3:

WAP to check if a string is a palindrome or not using inbuild functions

Code:

```
import java.util.*;
class Palindrome
{
	public static void main(String[] args)
	{
		String str;
		int flag=1;
		Scanner obj=new Scanner(System.in);
		System.out.println("Enter String:");
		str=obj.nextLine();
		for(int i=0;i<str.length()/2;i++)
		{
			if(str.charAt(i)!=str.charAt(str.length()-1-i))
				flag=0;
		}
		if(flag==0)
			System.out.println("String is not palindrome");
		else
			System.out.println("String is Plaindrome");
	}
}
```

Output

```
C:\Users\91720\OneDrive\Desktop\Anish Java>javac Palindrome.java

C:\Users\91720\OneDrive\Desktop\Anish Java>java Palindrome
Enter String:
Anish
String is not palindrome

C:\Users\91720\OneDrive\Desktop\Anish Java>javac Palindrome.java

C:\Users\91720\OneDrive\Desktop\Anish Java>java Palindrome
Enter String:
mom
String is Plaindrome
```