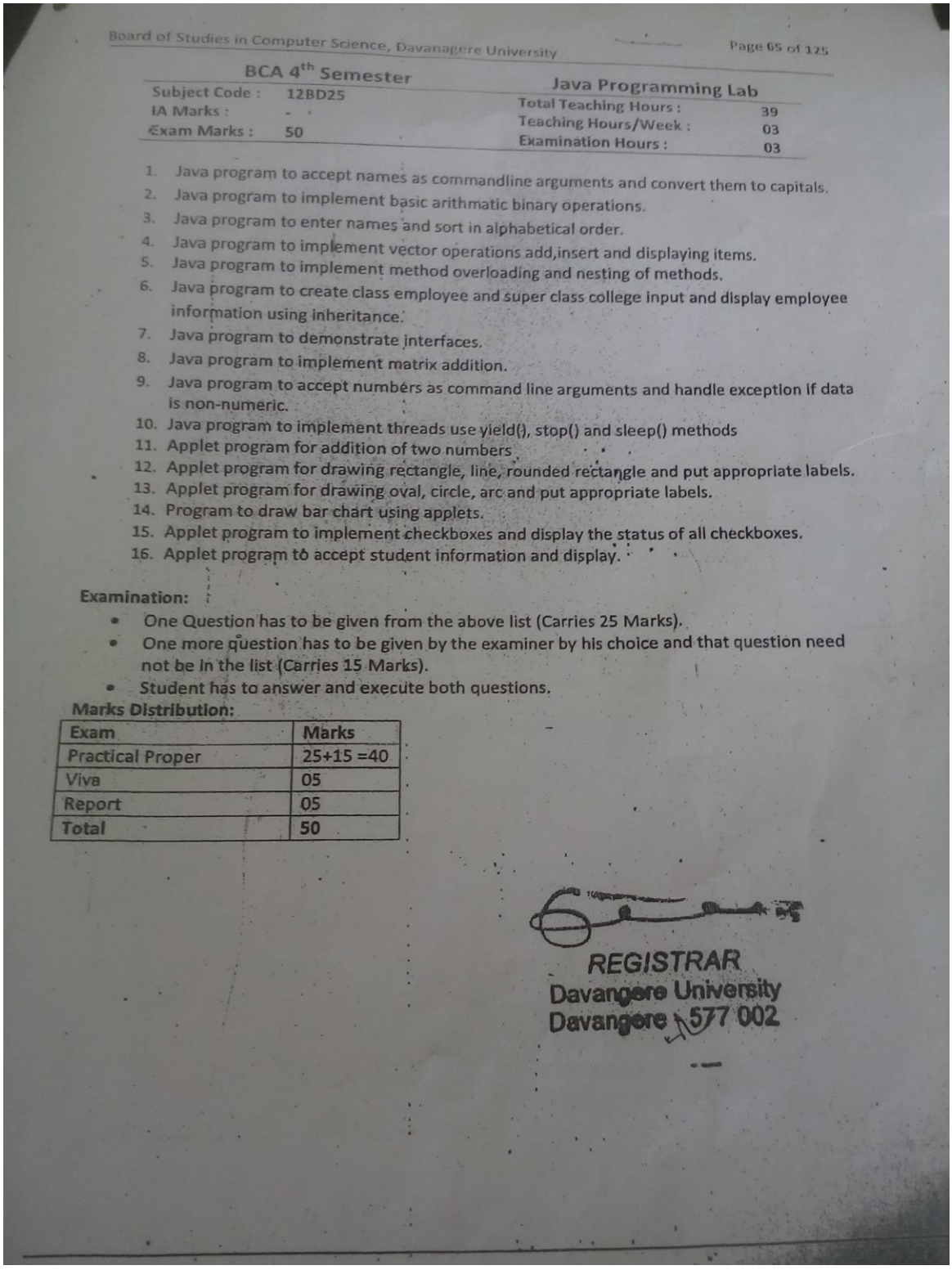
Java programming Lab Program List for 2 Year BCA, Davanagere University.



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BCA 4th Semester		Java Programming Lab	
Subject Code :	12BD25	Total Teaching Hours :	39
IA Marks :	-	Teaching Hours/Week :	03
Exam Marks :	50	Examination Hours :	03

1. Java program to accept names as commandline arguments and convert them to capitals.
2. Java program to implement basic arithmatic binary operations.
3. Java program to enter names and sort in alphabetical order.
4. Java program to implement vector operations add,insert and displaying items.
5. Java program to implement method overloading and nesting of methods.
6. Java program to create class employee and super class college input and display employee information using inheritance.
7. Java program to demonstrate interfaces.
8. Java program to implement matrix addition.
9. Java program to accept numbers as command line arguments and handle exception if data is non-numeric.
10. Java program to implement threads use yield(), stop() and sleep() methods
11. Applet program for addition of two numbers
12. Applet program for drawing rectangle, line, rounded rectangle and put appropriate labels.
13. Applet program for drawing oval, circle, arc and put appropriate labels.
14. Program to draw bar chart using applets.
15. Applet program to implement checkboxes and display the status of all checkboxes.
16. Applet program to accept student information and display.

Examination:

- One Question has to be given from the above list (Carries 25 Marks).
- One more question has to be given by the examiner by his choice and that question need not be in the list (Carries 15 Marks).
- Student has to answer and execute both questions.

Marks Distribution:

Exam	Marks
Practical Proper	25+15 =40
Viva	05
Report	05
Total	50

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Program 1

/* Write a program to find the sum of digits of a given number */

```
class Lab1
{
	public static void main(String a[])
	{
		if(a.length<1)
		{
			System.out.println("Please pass arguments through command
line");
			System.exit(0);
		}
		for(int i=0;i<a.length;i++)
		{
			String str = a[i];
			System.out.println("Given string: " + str + " After conversion: " +
str.toUpperCase());
		}
	}
 }
```

Command line arguments: Arguments which are passing during run time, in java need to pass to the java interpreter and each arguments is separated by space.

OUTPUT:

```
C:\Program Files\Java\jdk\bin>javac Lab1.java

C:\Program Files\Java\jdk\bin>java Lab1 raghu ganesh
Given string: raghu After conversion: RAGHU
Given string: ganesh After conversion: GANESH
```

Program 2

```
import java.io.*;
class ArthSub
{
int a,b;
void operation()throws IOException
{
        DataInputStream d=new DataInputStream(System.in);
        System.out.println("Enter the value of a");
        a=Integer.parseInt(d.readLine());
        System.out.println("Enter the value of b");
        b=Integer.parseInt(d.readLine());
        System.out.println("Sum is :"+ (a+b));
        System.out.println("Difference is :"+ (a-b));
        System.out.println("Product is :"+ (a*b));
        System.out.println("Quotient is :"+ (a/b));
        System.out.println("Remainder is :"+ (a%b));
}
}
class Lab2
{
public static void main(String arg[])throws IOException
{
ArthSub objArthSub=new ArthSub();
objArthSub.operation();
}
}
```

OUTPUT:

```
C:\Program Files\Java\jdk\bin>java Lab2
Enter the value of a
20
Enter the value of b
10
Sum is :30
Difference is :10
Product is :200
Quotient is :2
Remainder is :0
```

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