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| A picture containing drawing, stop, room  Description automatically generated | Core Java  Practical #2 | | |
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| **Subject/Course:** | Core Java | | |
| **Topic** | Command Line Arguments, Iterations, Conditional Statements & String methods | | |
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| **Command Line Arguments** | | | |
| 1. Prompt the user for 2 integers using command line argument and print sum, difference, product, average, maximum and minimum. | | | |
| class practi2a  {  public static void main(String [] args)  {  int a,b;  a=Integer.parseInt(args[0]);  b=Integer.parseInt(args[1]);  System.out.println("Addition ="+(a+b));  System.out.println("Difference ="+(a-b));  System.out.println("Product ="+(a\*b));  System.out.println("Average ="+((a+b)/2));  System.out.println("Maximum ="+ Math.max(a,b));  System.out.println("Minimum ="+ Math.min(a,b));  }  } | | | |
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| **Iterations** | | | |
| 1. Get the output as shown below if the user inputs a string ‘D’:   A  B A  C B A  D C B A | | | |
| import java.util.\*;  class practi2b  {  public static void main(String [] args)  {  System.out.println("Input Do!");  Scanner sc =new Scanner(System.in);  char s=sc.next().toUpperCase().charAt(0);  int a=s;  int alpha=65;  for(int i=0;i<=a-alpha;i++)  {  for(int j=i;j>=0;j--)  {  System.out.print((char)(alpha+j)+" ");  }  System.out.println();  }  }  } | | | |

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| **Conditional Statements & String methods** |
| 1. Write a Java program that takes the user to provide a single character from the alphabet. Print Vowel or Consonant, depending on the user input. If the user input is not a letter (between a and z or A and Z), or is a string of length > 1, print an error message. |
| import java.util.\*;  class Vowel  {  public static void main(String args[])  {  System.out.println("Enter a character");  Scanner sc= new Scanner(System.in);  String s=sc.next();        boolean uc=s.charAt(0)>=65 && s.charAt(0)<=90;  boolean lc=s.charAt(0)>=97 && s.charAt(0)<=122;        boolean vowels= s.equalsIgnoreCase("a")||s.equalsIgnoreCase("e")||  s.equalsIgnoreCase("i")||s.equalsIgnoreCase("o")||  s.equalsIgnoreCase("u");  if(s.length()>1)  {  System.out.println("String length is greater than 1");  }  else if(!(uc||lc))  {  System.out.println("Not a letter");  }  else if(vowels)  {  System.out.println("Vowels");  }  else  {  System.out.println("Consonant");  }  }    } |