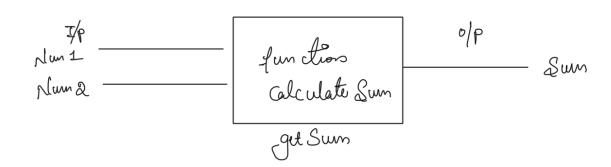
Hands on Practice

1) Function to get Sum of Numbers



olp action
Type

get Sum (num 1, num 2) (get um 1 + num 2)

7

```
Coding > Java > Functions > J Practice.java > Java Language Support >  Practice >  invoke_getSum

package Functions;

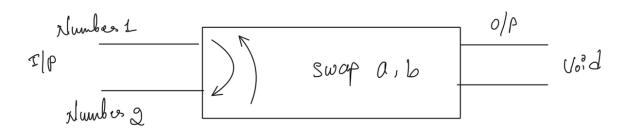
public class Practice {

public static int getSum(int num1,int num2) {
 return num1+num2;
 }

public static void invoke_getSum() {
 System.out.println["Invoking getSum(4,6): Result = "+getSum(num1:4,num2:6)];

Run|Debug|Run main|Debug main
public static void main(String[] args) {
 invoke_getSum();
 }
}
```

3) Function to swap two Variables Value



Equation for swapping Two Variable

```
ent a=5; entb=10;

a= a+b-(b=a);
```

Swap werry temp Variable



temp = a; a = b; b = Lemp;

NOTÉ: Java pass Value to the function asguments Not the Actual Reference.

Value passing By Value.

Eighter who have to conste object or have to store

```
The Lovet Swop the Variables.
```

```
public static void swap(int num1 , int num2){
   int temp = num1;
   num1 = num2;
   num2 = temp;
}

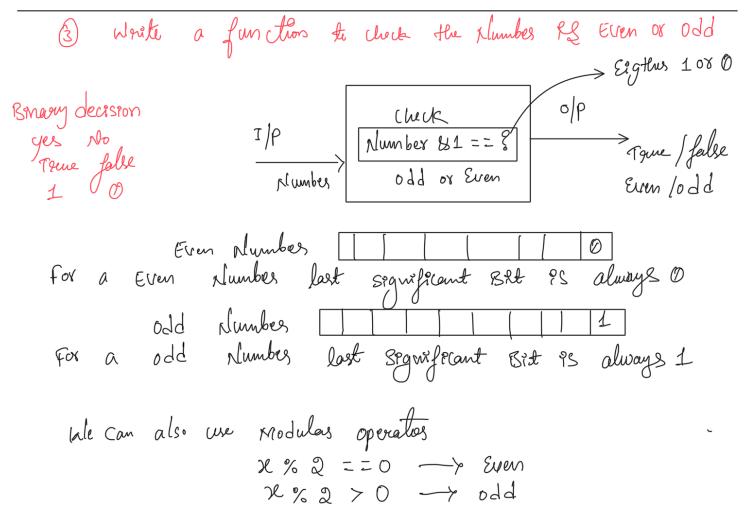
public static void invoke_swap(){
   System.out.println[x:"Invoking Swap(10,20)]*[);
   int a=10;
   int b=20;
   System.out.println("Before Swap "+ "a = "+a+" b = "+b);
   swap(a,b);
   System.out.println("After Swap "+ "a = "+a+" b = "+b);
}

public static void invoke_swap(){
   Before Swap a = After Swap a = 1
   (base) kveereshed
```

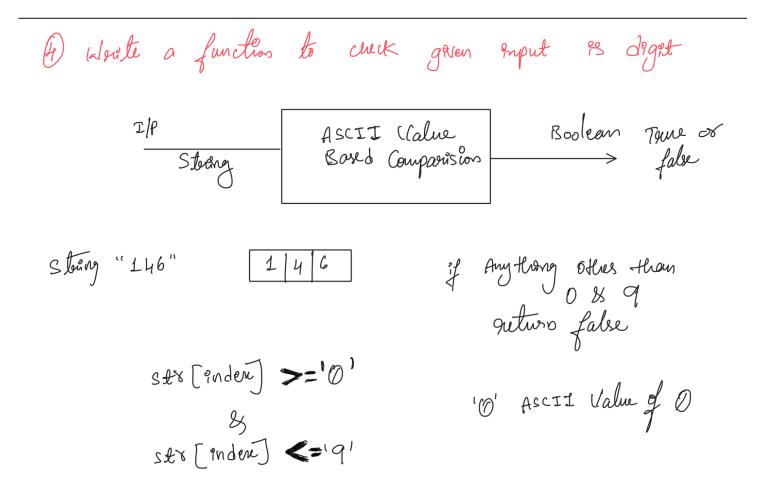
JAVA IS Stricty pass By Value

Invoking getsum(4,0): kesutt = 10 Invoking Swap(10,20) Before Swap a = 10 b = 20 After Swap a = 10 b = 20 (base) kveeresh@Ks-MacBook-Air-2 Computer

```
THANKTHA AGESTIME
         public static void swap1(int[] arr){
                                                                              Invoking Swap(10,20)
                                                                              Before Swap a = 10 b = 20
                                                                              After Swap a = 20 b = 10
                                                                            (base) kveeresh@Ks-MacBook-Air-2 Cor
            arr[0]=arr[0]+arr[1]-(arr[1]=arr[0]);
        public static void invoke_swap(){
               System.out.println(x:"Invoking Swap(10,20)");
27
                int[] swapArr=new int[2];
                swapArr[0]=10;
                swapArr[1]=20;
                System.out.println("Before Swap "+ "a = "+swapArr[0]+" b = "+swapArr[1]);
                swap1(swapArr);
                System.out.println("After Swap "+ "a = "+swapArr[0]+" b = "+swapArr[1]);
```



```
public static void isEven(int n){
   System.out.println("Entered Number "+n+" is: "+((n&1)==0?"Even":"Odd"));
public static void invoke_isEven(){
                                                                         X:+ShowCodeDetailsInExceptionMess
   System.out.println(x:"Invoking isEven(11)");
                                                                         rage/2ecbf2b3509965b320b049bd629e
   isEven(n:11);
                                                                         Invoking getSum(4,6): Result =
Invoking Swap(10,20)
public static void main(String[] args) {
                                                                         Before Swap a = 10 b = 20
    invoke_getSum();
                                                                         After Swap a = 20 b = 10
    invoke_swap();
                                                                         Invoking isEven(11)
    invoke_isEven();
                                                                         Entered Number 11 is: Odd
                                                                       o (base) kveeresh@Ks-MacBook-Air-2
```



```
public static boolean isDigit(String s){

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

if(s.charAt(i)<'0'||s.charAt(i)>'9')return false;
}

return true;

public static void invoke_isDigit(){

System.out.println("Invoking is Digit for ''123'': "+ isDigit(s:"123"));

System.out.println("Invoking is Digit for ''12bA'': "+ isDigit(s:"12bA"));

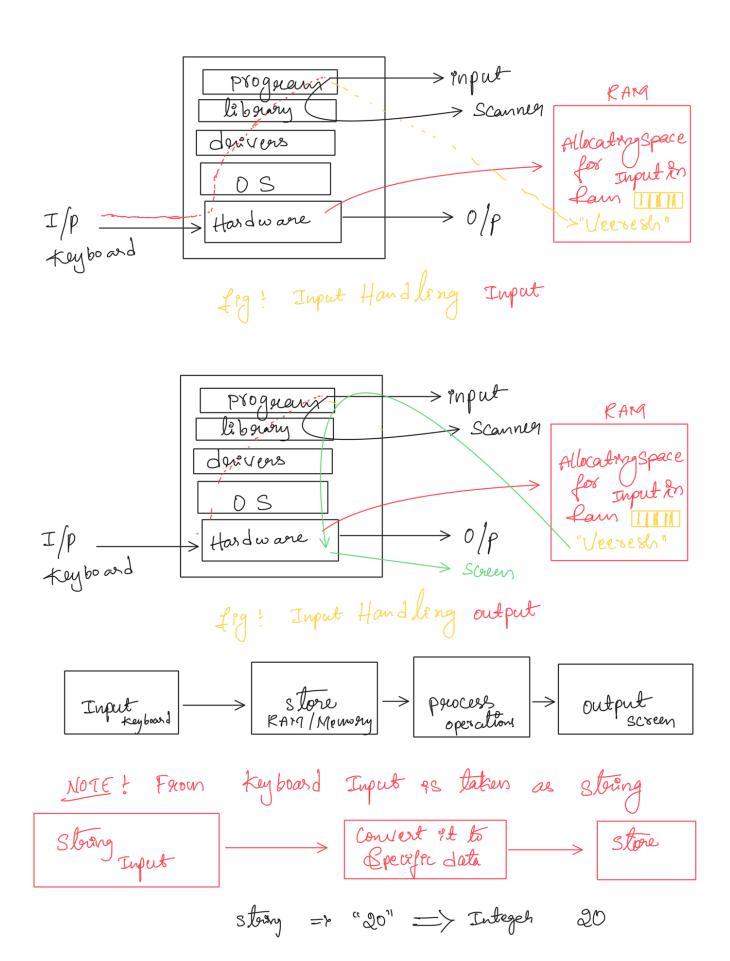
Run|Debug|Run main|Debug main
```

```
Entered Number 11 is: Odd
Invoking is Digit for ''123'': true
Invoking is Digit for ''12bA'': false
○ (base) kveeresh@Ks-MacBook-Air-2 Computer-Science %
Indexing completed. 

□ Java: Ready
```

Input Roading

(F) Functions to accept Name as Input and pranting
Simple craceling.



```
public static void greet(){
    System.out.println(x:"Eneter Name For Greeting");
    Scanner input = new Scanner(System.in);
    String s = input.nextLine();
    System.out.println("namaste "+ s);
    input.close();
}
```

(6) Printing the ASCII Value of given story

Input

Story

Story

Story

Pront

O/P

```
public static void printAscii(String s){

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

char ch = s.charAt(i);

System.out.println( ch +" Ascii = "+ (int) ch );

public static void invoke_printAscii(){

printAscii(s:"Hello Veeresh");

Run|Debug|Run main|Debug main

nublic static void main(String[] args) {

PROBLEMS (18) OUTPUT DEBUG CONSOLE TERMINAL PORTS

Invoking Swap(10,20)

Before Swap a = 10 b = 20

After Swap a = 20 b = 10

Invoking isEven(11)

Entered Number 11 is: Odd

Invoking is Digit for ''123'': true

Invoking is Digit for ''12bA'': false

Eneter Name For Greeting

Linked in

namaste Linked in

H Ascii = 72

e Ascii = 101

l Ascii = 108

o Ascii = 108

o Ascii = 111

Ascii = 32

V Ascii = 86

e Ascii = 101

r Ascii = 114

e Ascii = 115

h Ascii = 104
```

> output

While a program to find staing length

IP Triput String find characters
Count Op

1 no over Each character
2 counters
3 traversing over Staing

```
public static int getStringLen(String s){
   int c = 0;
   for(char ch : s.toCharArray()){
        c++;
   }
   return c;
}
```

```
public static int getStringLen(String s){

int c = 0;

// for(char ch : s.toCharArray()){

// c++;

// }

return s.toCharArray().length;

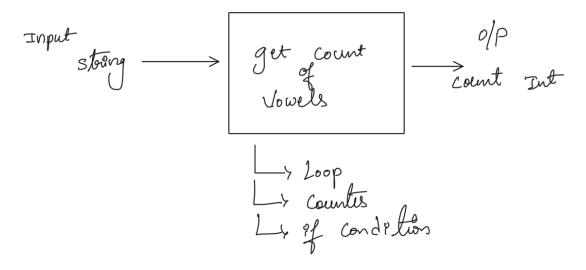
Run|Debug|Run main|Debug main
```

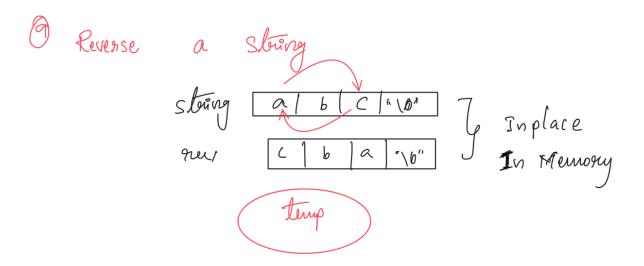
Methods to get count of vowels on a given storing

8-> Count of Vowels

a e o o u

A E J O U





In Java Stoing 95 thouad Sofe & 9th 9unitable So We can use Stoing Burldes or Character Annay, we can also the grews: on, also we can use stack.

```
static String reveseString(String input){
StringBuilder output = new StringBuilder();
for (int index = input.length()-1; index >= 0; index--)
    output.append(input.charAt(index));
                                                            static String reveseStringV2(String input) {
                                                                char[] inputArray = input.toCharArray();
return output.toString();
                                                                int leftIndex = 0;
                                                                int rightIndex = input.length()-1;
                                                                while(leftIndex < rightIndex)</pre>
                                                                    char temp = inputArray[leftIndex];
                                                                    inputArray[leftIndex] = inputArray[rightIndex];
                                                                    inputArray[rightIndex] = temp;
                                                                    leftIndex++;
                                                                    rightIndex--;
                                                                String output = new String(inputArray);
                                                                System.out.println(output);
                                                                return output;
                                                            static void invoke_reverseString()
                                                                String input1 = "Linked In";
                                                                String output1 = reveseStringV2(input1);
                                                                System.out.println("Input " + input1 + " Output " + output1);
```