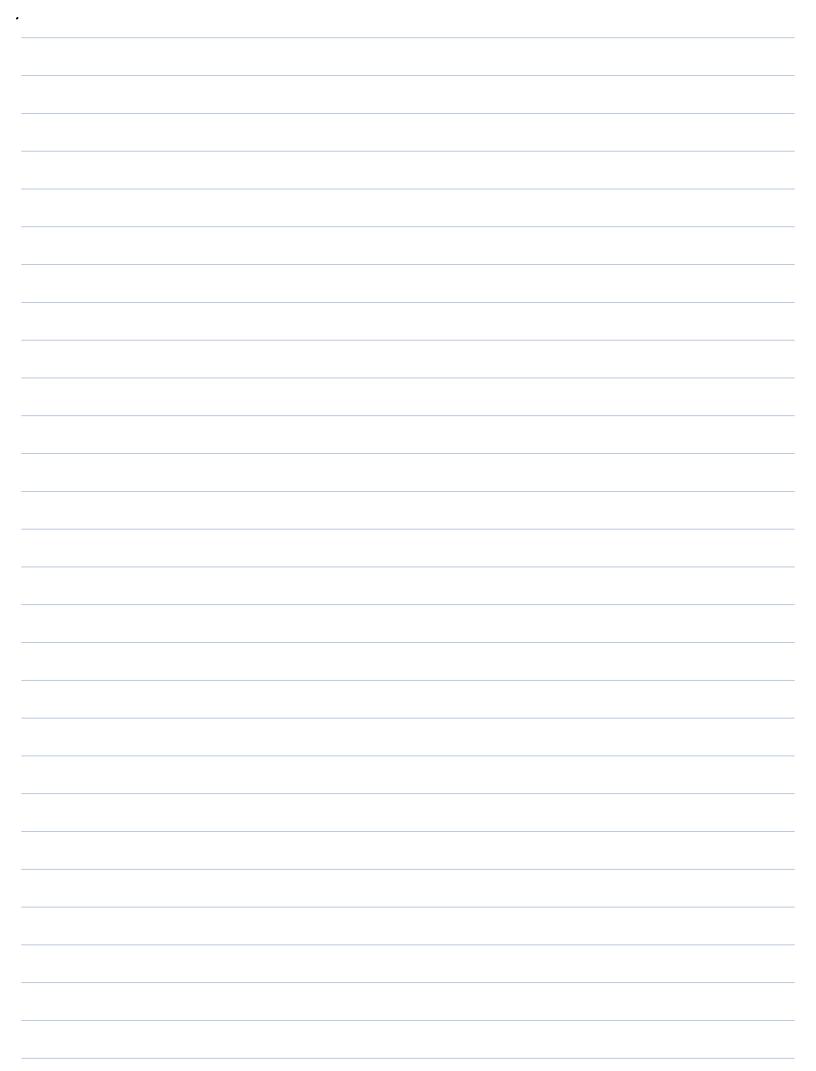


Broblem in Non Functional Brogramming a, b, and c. public static void main () € int Sum 1 = 0, lum 2 = 0, lum = 0; while (a>0) { Sum1+= 2%10; $\alpha / = 10^{\circ}$ SOP (sum 1); while (b>0){ Sum 2+ = 67010; b/= 10; SOP (suma); while (c>0)& Sum3 + = C% 100, c/= 10 °, SOP (Sum 2) 3

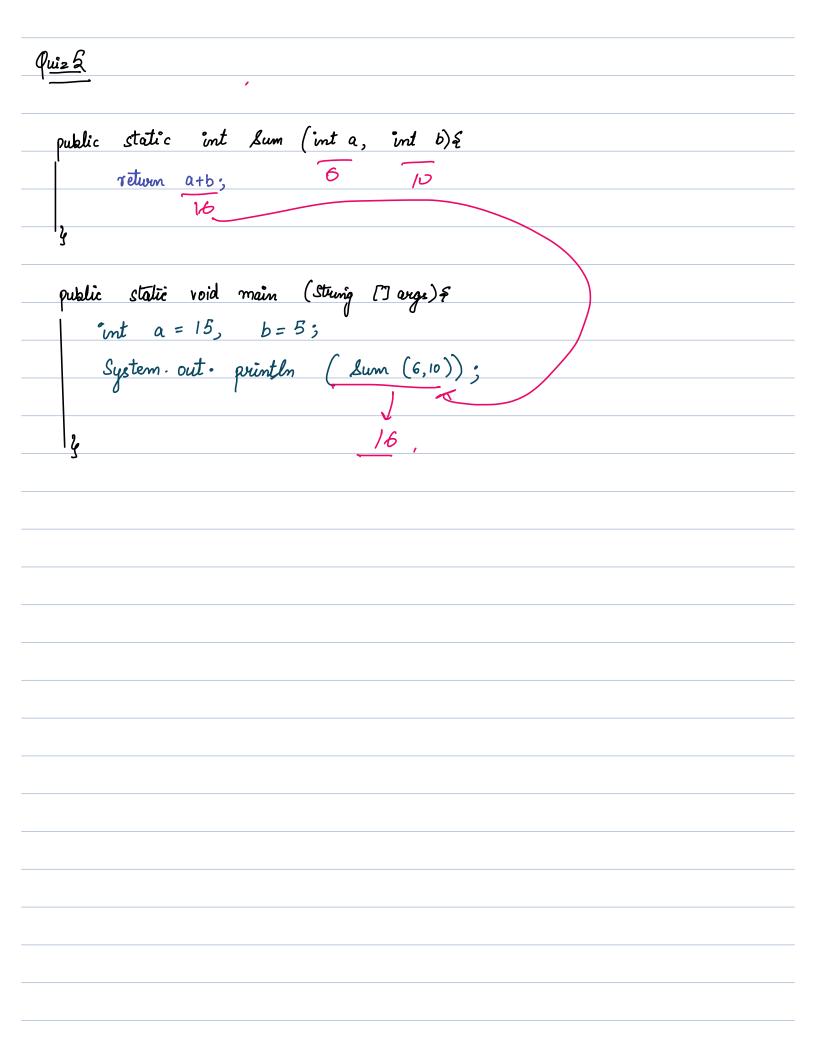
Gode? Issues above Redundancy. - Readability. · Mountainability, BLACKBOX while (2 > 10) of Imput SOP (Sum);

```
Syntax of Function
  anstype function Name ("uput Type input ) {
    [[Mainlogic
        return ans;
 function to add two numbers.
    int interesum (int a, int b) &
     ent cum = a+b;
     return sum;
   function to print "Hello Would"
     void point Hello () &
    System. out. print ("Hello World");
```



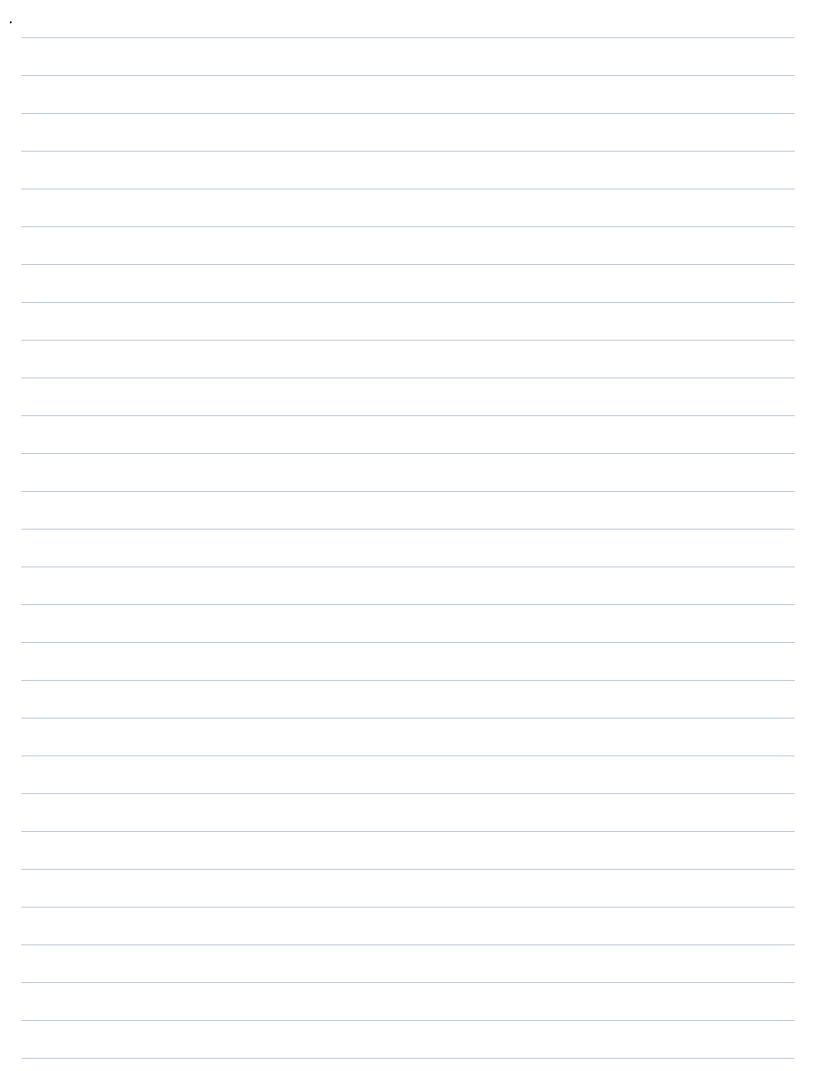
```
Puizl.
                           19 10
  public static int Sum (int a, int b) {
                                            15+10=25
  public static void main (string [] args) &
    "
a = 15, b = 5;
     System. out. println (<u>Sum (a,10)</u>);
Quiz 2
  public static int sum (int a, int b) {
      return a+b;
  public static void main (String [] args) &
    int a = 15, b=5;
     Sum (a,b) --
```

```
Puiz 3
  public static int sum (int a, int b) &
   System. out. print (a+6);
                          ___ X Tolum
  public static void main (String [] args) &
    "int a = 15, b = 5;
    Lum (a,b);
   public static int Lum (int a, int b) &
       return a+b;
   public statie void main (String [] args) $
      int a = 15, b = 5;
```



ion!				
ljiven a	n ûnteger N,	return whether the i	nteger is even	On mo
Input 1.	12	-> Tave		
Input 2 s	5	- false		
Static	boalean	is Even (int n) {	
if	(n %) 2 = =	0)		
'/	retum	true :		
2	return	- false;		

```
Question 2.
 ljiven an integer N, return whether its height is Small, medium ar
  large
      If it is less than 10, then its small
  o If it is b/w 10 to 20, then its medium
  · If it is greater than 20, then large
                            Small
 In put i
                            large
 Input: 51
    static String height ("und n
         String result = "";
                 result = "Small";
                   result = "large",
       return result;
```



jiven Jwo	doubles as	orguement, y	eturn the area of su	ectongle
Input :	Q = 1.0 b = a.0		g. 0 	
Static	double	очеа	(double a,	double b)
	setum	a * b;		
y				

n4. Jiven radius (double	e) of wick, ne	turn the area of ci	rclo
Input > 7.0		∫C * & XJ 	L
T * 4 ² 3.14 * 7 * 7		3.14	
3.14 * 7 * 7		J	
	154.	Moth PI	
Statić double	area of and	le (double m	adiw
return (Math. PI +	* radius * 7	radic
L.			
J			

given an 1 to N.	integer N	as an inject, prin	d all	pume	numbers
Input s	10	1 to 10			
<u> </u>	-	2	35:	7	
Static	boolean	is prime (int	n) {		
	factores =	•			
fare	l'int i	=1; i<=m	· j	FF)E	
	ĺ	f (n% =	=0)	£	
		factors	t+5		
1 2					
J	f factor	==2)			
'	7	tuun t 740.			

Static	void prime Numbers (int n) {
fa	u (int num=1., num <=n., num++){
	if (is beime (num)) {
	System.out.pount (num).
3	ر
<u> </u>	