Functions > "Is a pilce of code which can be be used. Why functions? -> Repeatation -> Readibility Sur 4 > sum y = Cum > 4 5 lines 7 20 lines -> W/o 5 lines -> Sun

> char > char > long > long r Int → int -> Double -> double 3 boolean 7 boolean 3 Short "short -> float -> float > String > string > Array > int[]

hoid rull.

sun -> Intyle

Int \_ - -

noid > no seture statement only syso() others > return Ly gives you ofp -> destroy the function one can have many return statements

Synten. Accers spenfier > public
>> privite Declaration Sulling -> protected Synlars to Declare. fure-name (parameters) { public statio, return type 1) Statements.

Preturn; error > missing return type

parameters optional by parameterized func. b non-parameterized fun. parameters > iff of the func. -> data type should be defined.

<u>Call</u> -> func-name ( arguments) Calling a func. > Ann (a, b) collecting a func. > int and = sum(a,b) int Clark int > int cher ch char > char boolean > boolean array ; int []

arguments -> 0/PS. -> don't define data type. Parametel -> dering fune. deelsel -> define dates type

→ a,5 → No. of paras argu should be same. I order Should be same.

Arzument -> during furc. Call > no data type defined. > variable that has Jakun'i/p X,y. Jun(a,b) X Sun(x,y)

function relieb is called > called (Sum) furction which is calling > caller (nain) Code always start compiling from main June. > factorial

1 Pg | 1 C Y

(n-8)! Y!

(n-8)! Y!

Integer. MIN-VAUUE 4>1 22 4<9 3>422 3<9 T

[SL < larg.]

SL> 14 8)

8>448869 6>8 & 6<9 9>822 9<9 1000 F

```
public static int findsecondLargest(int arr[]){
    int n = arr.length;
   if(n <= 1){
        return Integer.MIN_VALUE;
    }
    int largest = Integer.MIN_VALUE;
    int secondLargest = Integer.MIN_VALUE;
    for(int i =0; i <n;i++){
       if(arr[i] > largest){
            secondLargest = largest;
            largest = arr[i];
       else if(arr[i] > secondLargest && arr[i] != largest){
            secondLargest = arr[i];
       }
    // if all the values are same ie. no SL found
   if(secondLargest == Integer.MIN_VALUE){
        return Integer.MIN_VALUE;
    return secondLargest;
```

```
What will be the output of the following code?

public static void func(int a, int b){
    System.out.println(a + b);
    }

public static void main(String[] args) {
    int a = 7;
    func(a, 12);
    }
```

```
P > 19
```

```
What should be return type of the following function:

public static ____ division(int a, int b)

{
  float c = a/b;
  return c;
}
```

```
op > float
```

```
What will be the output of the following Java code?
public static void demo(int a, int b){
    System.out.println(a + " " + b);
}

public static void main(String[] args) {
    int a = 5;
    int b = 15;
    demo(a);
}
```

o|P→ Mor, argue length

```
Would the following code generate an error:

public static double add(int a,int b)
{
    float c=a+b;
    return c;
}

public static void main (String[] args) {
    System.out.print(add(10,3));
}
```

0/P- No, 13.0

```
Will the given code generate any error:

public static void func1(int a)
{
    System.out.print("a");
}

public static void main (String[] args) {
    func1(2.5);
}
```

```
0 P-7 A
```

```
What will be the output of the following code?

public static int square(int a){
    int ans = a * a;
    return ans;
}

public static void main(String[] args) {
    int a = 4;
    a = square(a);
    System.out.println(a);
}
```

```
0 P-7 16
```

```
What will be the output of the following code:

public static void func1(int a,int b)
{
    int ans=1;
    for(int i=0;i<b;i++)
    {
        ans*=a;
    }
    System.out.print(ans);
}

public static void main (String[] args) {
    func1(2,5);
}
```

## 0/1332

```
What will be the output of the following code:

public static int sum(int a,int b)
{
    System.out.print("int sum ");
    return a+b;
}

public static double sum(double a,double b)
{
    System.out.print("float sum ");
    return a+b;
}

public static void main (String[] args) {
    System.out.print(sum(5,4));
    System.out.print(sum(5,0,4.0));
}
```

ops int sun 9 fleet sun 9.0

```
What will be the output of the following code:

public static int sum(int a,int b)
{

    System.out.print("int sum ");
    return a+b;
}

public static long sum(long a,long b)
{

    System.out.print("long sum ");
    return a+b;
}

public static void main (String[] args) {
    int a=4;
    int b=5;
    System.out.print(sum(a,b));
}
```

```
function
orandonding

(4.4) [1-50-int]

double [1-100-long]
```

```
9 mus bis « 9/0
```

```
Will following code generate any error?
public class Main {
   public static void func(int a) {
     int b = 10;
     a = a + 10;
     System.out.println(a);
   }

public static void main(String[] args) {
   int a = 10;
   func(a);
   System.out.println(a);
   }
}
```

0 P-7 NO