What is the extension for a declaration file

a) .ts

b) .d.ts

c) .d

d) .js

Ans: b

_________________________1

It's mandatory to write declarations in the declaration file

a) true

b) false

Ans: b

Explanation: No it's not mandatory we can declare either in .ts / d.ts file. But it's recommended to seperate them.

_____________________2

Does typescript provides typesafety for third party libraries ?

a) yes

b) no

Ans: a

Explanation: yes, typescript provides both typesafety and intellisence feature for third party libraries like jquery, angular js etc.

__________________________3

Does ambient file contains implementation ?

a) true

b) false

Ans: b

Explanation: Ambient files will not contain the implementations, it is just type declarations. Declarations need to be included in the typescript file with extension (.ts)

_________________________4

Keyword used for declaring variables/ modules

a) export

b) declare

c) let

d) var

Ans: b

___________________________5

Answer the questions (6-9) with referencing the following code

code:

```
------------------------

lib.js:

var Operations = {

   add: function (a, b) {

      return a + b;

   }

};


lib.d.ts:

declare module Arithmetic {

   export interface Main {

      add(num1: number, num2: number): number;

   }

}


declare var MyOperations: Arithmetic.Main;


Main.ts:

var sum = MyOperations.add(10, 20);

console.log("sum: " + sum);

------------------------
```

What is the expected output for the given code ?

a) sum: 30

b) a and b are not defined

c) MyOperations is not defined

d) add is not a function

Ans: c

____6

What is the expected output with the below changes in lib.d.ts ?

lib.d.ts:

```
declare module Addition {
    export interface Main{
      add(num1: number, num2: number): number;
   }
  declare var Operations : Addition.Main;
}
```

a) sum: 30

b) a and b are not defined

c) Operations is not defined

d) add is not a function

e) declare modifier cannot be used in an already ambient context

Ans: e

_______________________________________7

What is the expected output with the below changes in lib.d.ts ?

lib.d.ts:

```
declare module Addition {
   export interface Main{
      add(num1: number, num2: number): number;
  }
}
var Operations : Addition.Main;
```

a) sum: 30

b) declared modifier is required for top level declaration

c) Operations is not defined

d) add is not a function

e) declare modifier cannot be used in an already ambient context

Ans: b

__________________________________8

What is the expected output with the below changes in lib.d.ts ?

lib.d.ts:

```
declare module Addition {
    export interface Main{
       add(num1: number, num2: number): number;
   }
}
declare var Operations : Addition.Main;
```

a) sum: 30

b) a and b are not defined

c) Operations is not defined

d) add is not a function

e) declare modifier cannot be used in an already ambient context

Ans: a