

## CRT Questions

**1. a) List four legal identifier names.**

- muhammad,huzaifa,age,height

**b) List four illegal identifier names and explain why each is illegal**

1. 1stPlace
2. Total-amount
3. @
4. class

**2. a) In two statements, declare a variable named numBeads and assign it the value 5**

1. `int numBeads;`
2. `numBeads = 1;`

**. b) In one statement, declare a variable named numBeads and assign it the value 1.**

1. `Int numBeads = 1`

**3. a) What is the final value of yourNumber after the last statement executes?**

```
int myNumber = 5;
```

```
int yourNumber = 3;
```

```
myNumber = yourNumber *4 ; // myNumber is 12
```

```
yourNumber = myNumber + 7; // yourNumber is 12
```

**4. Determine the appropriate data type for each of the following values:**

a) the number of books in a department store,int

b) the price of a books,double

c) the number of books in a central library,int

d) the average age of reading books properly,Double

e) whether a book passionate book reader received award or not,boolean

f) the first initial of book reading people,String

**5. a) What is the difference between a primitive data type and an abstract data type?**

1. Primitive data type: A data type that already defined by the language
2. Abstract data: is defined by behavior Ex. Class or interface instead of writing code.

**b) What is the difference between a class and an object?**

Class: are the layout of developing an object, as well as its characteristics like behaviors(methods) that the object developed from.

Object : An **object** is an instance of a class, meaning it is created based on the class definition and can hold specific data.

- Object: are a variable of a class, meaning that the object is developed through a class/ file to hold code for ex when an object like int (beans) = 5 the object is beans and the specific data is represented by 5.