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## OOPS - 1

Which of the following is an important difference between object-oriented programming and procedural programming?

### Choose any one

- ☐ Object-oriented programming is only possible in Java and not in other languages such as C++.
- ☒ Procedural programming treats a program as a sequence of actions or commands, while object-oriented programming looks at a program as a group of interacting entities named objects with related data and behavior. ✓ correct answer
- ☐ Procedural programming is slower and less efficient than object-oriented programming.
- ☐ Object-oriented programming is not related to real life.



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## OOPS - 2

What is an object? How is an object different from a class?

### Choose any one

- ☐ An object is a kind of class that does not contain any behavior (methods).
- ☐ A class is an instance of an object. One object can be used to create many classes.
- ☐ Objects are used in object-oriented programming and classes are used in class-oriented programming.
- ☒ An object is an entity that encapsulates related data and behavior, ✓ correct answer while a class is the blueprint for a type of objects.



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## OOPS - 3

Imagine that you are creating a class called **Calculator**. A **Calculator** object could be used to program a simple mathematical calculator device like the ones you have used in math classes in school.

Which of the following is an state for a Calculator object: - (State Yes / No)

### Your answers

1.) Its name, who owns it, its age, its size, weight in pounds.

No



2.) The model number and company that manufactures it

No



3.) The number that has just been computed

Yes



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## OOPS - 4

Imagine that you are creating a class called **Calculator**. A **Calculator** object could be used to program a simple mathematical calculator device like the ones you have used in math classes in school.

What behavior might a Calculator object have? : - (State Yes / No)

### Your answers

1.) To create a new calculator and use it to solve a math problem

No



2.) Methods to add, subtract, multiply, divide

Yes



3.) Things you can do with the Calculator, such as lift it up, put it down, turn it on and off, put batteries in it

No



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## OOPS - 4

Imagine that you are creating a class called **Calculator**. A **Calculator** object could be used to program a simple mathematical calculator device like the ones you have used in math classes in school.

What behavior might a Calculator object have? : - (State Yes / No)

### Your answers

2.) Methods to add, subtract, multiply, divide

Yes



3.) Things you can do with the Calculator, such as lift it up, put it down, turn it on and off, put batteries in it

No



4.) All of the buttons the calculator would have on it, like a + button, a \* button, and a 7 button

No



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## OOPS - 5

Which of the following is true about Abstraction: - (State Yes / No)

### Your answers

No



2.) A keyword that optimizes programs that do not use classes or objects.

No



3.) The ability to focus on a problem at a high level without worrying about the minor details.

Yes



4.) When things are confusing and vague rather than simple and understandable.



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## OOPS - 5

Which of the following is true about Abstraction: - (State Yes / No)

### Your answers

2.) A keyword that optimizes programs that do not use classes or objects.

No



3.) The ability to focus on a problem at a high level without worrying about the minor details.

Yes



4.) When things are confusing and vague rather than simple and understandable.

No



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## OOPS - 6

How do objects provide abstraction? (State Yes / No)

### Your answers

1.) Public fields provide abstraction because they let the client directly view an object's data.

No



2.) Objects provide abstraction through the .provideAbstraction() method.

No



3.) By giving us more powerful pieces of data that have sophisticated behavior without having to manage and manipulate the data directly.

Yes



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## OOPS - 6

How do objects provide abstraction? (State Yes / No)

### Your answers

2.) Objects provide abstraction through the .provideAbstraction() method.

No



3.) By giving us more powerful pieces of data that have sophisticated behavior without having to manage and manipulate the data directly.

Yes



4.) Objects provide abstraction when they declare a lot of useful data inside them.

No





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## OOPS - 7

Write the name of Programming approach in front of their definition:

- Monolithic
- Modular
- Object-Oriented

### Your answers

- 1.) Programs consist of multiple modules and in turn, each module has a set of functions of related types.

Modular



- 2.) Program has flat physical structure consisting of only global data and sequential code.

Monolithic



- 3.) Organized around objects rather than "actions" and data rather than logic.

Object-Oriented



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