

Software Engineering Assignment

OOPS Concept

Basic Concepts of OOP

Q1)WAP to print “Hello World” using C++

ANS.

(INPUT)

```
#include<iostream>
using namespace std;

main(){

    cout<<"Hello World";
}
```

(OUTPUT)

Hello World

Q2)What is OOP? List OOP Concepts

ANS.

The object-oriented programming is basically a computer programming design philosophy or methodology that organizes/ models software design around data, or objects rather than functions and logic.

List OOP Concepts

- 1. Class**
- 2. Objects**
- 3. Inheritance**
- 4. Encapsulation**
- 5. Polymorphism**
- 6. Abstraction**

Q3)What is the difference between OOP and POP?

ANS.

OOP.

- **Encapsulation,inheritance and polymorphism.**
- **Data and behavior bundled in objects**
- **Promotes code reusability and modularity**
- **Effective for managing complexity in large projects**
- **Objects encapsulate state for controlled manipulation**

POP.

- **Procedures or routines.**
- **Data and behavior are separate.**
- **Reusability through functions.**
- **May become cumbersome with complexity.**
- **State managed through variables, potentially leading to side effects.**