



## ASSIGNMENT

Batch: 2081



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Faculty: BS.C CSIT

Subject: Object Oriented Programming



```
1. Program for calculating area and perimeter of a rectangle by user
input data using concept of class and object
#include <iostream>
using namespace std;
class Rectangle {
    float length, breadth;
   void input() {
        cin >> length >> breadth;
   void areaPerimeter() {
        float area = length * breadth;
        float perimeter = 2 * (length + breadth);
        cout << "Area: " << area << endl;</pre>
       cout << "Perimeter: " << perimeter << endl;</pre>
int main() {
   rect.input();
   rect.areaPerimeter();
#include <iostream>
using namespace std;
class Student {
public:
   char name[50];
   int roll;
   long long phone;
   void input() {
```

```
cin >> name;
        cin >> roll;
    void display() {
        cout << "Roll No: " << roll << endl;</pre>
        cout << "Phone No: " << phone << endl;</pre>
};
int main() {
   Student std;
   std.input();
    std.display();
concept of class and objects
#include <iostream>
using namespace std;
class CurrencyConverter {
public:
    float INR;
    float Rate = 1.6; // 1 INR = 1.6 NPR
   void input() {
    void convert() {
        float NPR = INR * Rate;
        cout << "The converted mount in Nepali Rupees is : " << NPR <<</pre>
endl;
```

```
int main() {
   CurrencyConverter currency;
   currency.input();
// 4. Write a program to check whether the given number is prime or
object using the concept of class and object
#include <iostream>
using namespace std;
class PrimeChecker {
public:
   void input() {
   void checkPrime() {
       if (count == 2) {
```

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} else {
        cout << num << " is not a prime number.\n";
}

};

int main() {
    PrimeChecker prime;
    prime.input();
    prime.checkPrime();

return 0;
}</pre>
```