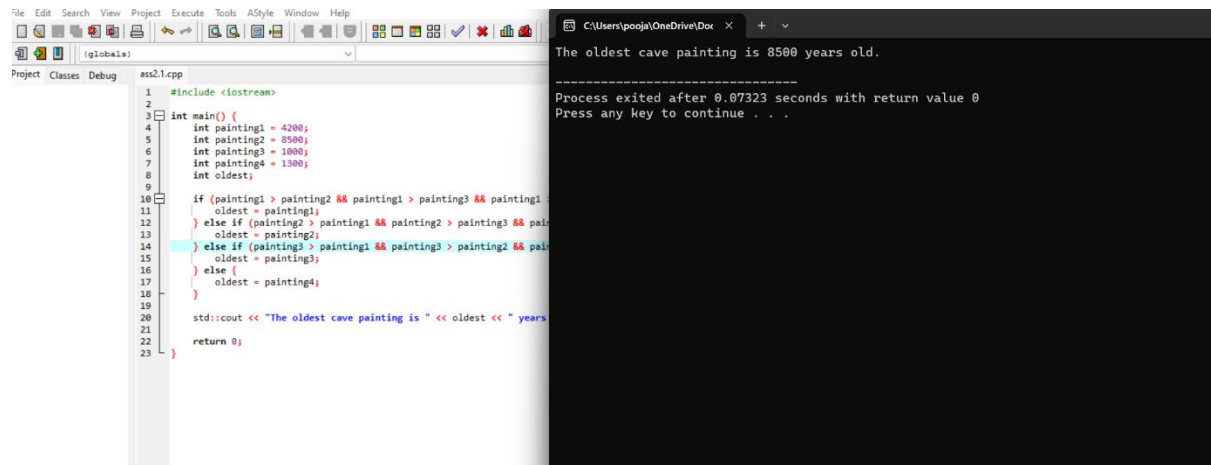


NAME: RADHA SAI NIKHITA

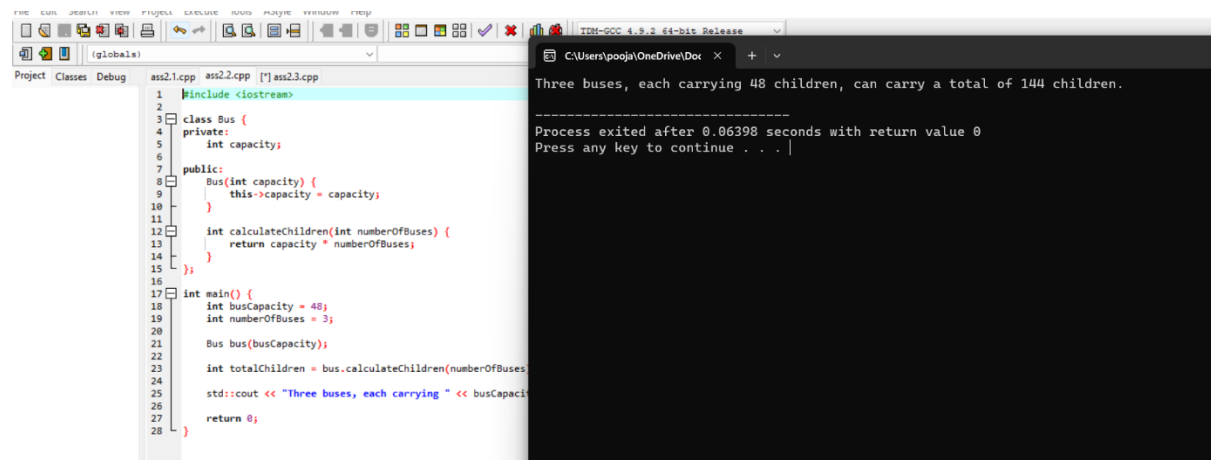
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1. There are four very old cave paintings. find the oldest painting using. else if ladder. In c++.
4200 years old, 8500 years old, 1000 years old 1300 years old.



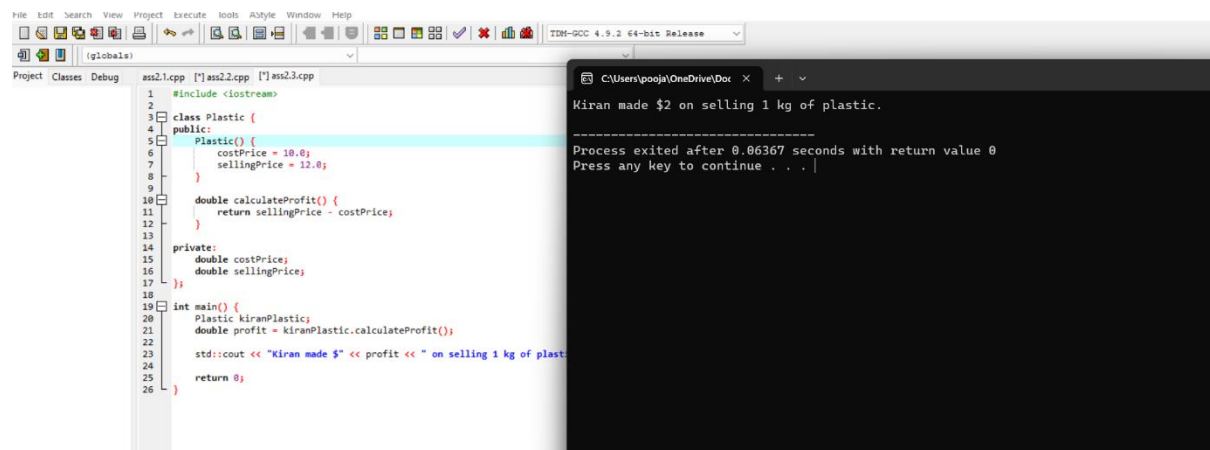
```
1 #include <iostream>
2
3 int main() {
4     int painting1 = 4200;
5     int painting2 = 8500;
6     int painting3 = 1000;
7     int painting4 = 1300;
8     int oldest;
9
10    if (painting1 > painting2 && painting1 > painting3 && painting1 > painting4)
11        oldest = painting1;
12    else if (painting2 > painting1 && painting2 > painting3 && painting2 > painting4)
13        oldest = painting2;
14    else if (painting3 > painting1 && painting3 > painting2 && painting3 > painting4)
15        oldest = painting3;
16    else {
17        oldest = painting4;
18    }
19
20    std::cout << "The oldest cave painting is " << oldest << " years old." << endl;
21    return 0;
22 }
```

2. One bus Can carry 48 children. How many children can 3 buses carry write C++ program using parameterised constructor.



```
1 #include <iostream>
2
3 class Bus {
4 private:
5     int capacity;
6
7 public:
8     Bus(int capacity) {
9         this->capacity = capacity;
10    }
11
12    int calculateChildren(int numberOfBuses) {
13        return capacity * numberOfBuses;
14    }
15 };
16
17 int main() {
18     int busCapacity = 48;
19     int numberOfBuses = 3;
20
21     Bus bus(busCapacity);
22
23     int totalChildren = bus.calculateChildren(numberOfBuses);
24
25     std::cout << "Three buses, each carrying " << busCapacity << " children, can carry a total of " << totalChildren << " children." << endl;
26
27     return 0;
28 }
```

3. Kiran bought 1 kg plastic for \$10, but sold 1 kg plastic for \$12. How much money does she on selling 1 kg plastic? write a C++ program using Default constructor.



```
1 #include <iostream>
2
3 class Plastic {
4 public:
5     Plastic() {
6         costPrice = 10.0;
7         sellingPrice = 12.0;
8     }
9
10    double calculateProfit() {
11        return sellingPrice - costPrice;
12    }
13
14 private:
15    double costPrice;
16    double sellingPrice;
17 };
18
19 int main() {
20     Plastic kiranPlastic;
21     double profit = kiranPlastic.calculateProfit();
22
23     std::cout << "Kiran made $" << profit << " on selling 1 kg of plastic." << endl;
24
25     return 0;
26 }
```

Kiran made \$2 on selling 1 kg of plastic.

Process exited after 0.06367 seconds with return value 0

Press any key to continue . . . |