

BASIC PROGRAMMING

1}Chef is fond of burgers and decided to make as many burgers as possible.

Chef has A patties and B buns. To make 1 burger, Chef needs 1 patty and 1 bun.

Find the maximum number of burgers that Chef can make.

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int A, B;
6      cout << "Enter number of patties: ";
7      cin >> A;
8      cout << "Enter number of buns: ";
9      cin >> B;
10
11
12     int burgers = min(A, B);
13
14     cout << "Maximum number of burgers Chef can make: " << burgers <<
        endl;
15
16     return 0;
17 }
18
19
```

OUTPUT:

```
Enter number of patties: 12
Enter number of buns: 14
Maximum number of burgers Chef can make: 12
```

=== Code Execution Successful ===

2}According to a recent survey, Biryani is the most ordered food. Chef wants to learn how to make world-class Biryani from a MasterChef. Chef will be required to attend the MasterChef's classes for X weeks, and the cost of classes per week is Y coins. What is the total amount of money that Chef will have to pay?

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int X, Y;
6      cout << "Enter number of weeks Chef will attend: ";
7      cin >> X;
8      cout << "Enter cost per week: ";
9      cin >> Y;
10
11     int total_cost = X * Y; // Total cost = weeks * cost per week
12
13     cout << "Total amount Chef has to pay: " << total_cost << " coins"
14         << endl;
15
16     return 0;
17 }
18
19
```

OUTPUT:

```
Enter number of weeks Chef will attend: 12
Enter cost per week: 13
Total amount Chef has to pay: 156 coins
```

```
=== Code Execution Successful ===
```

3}The working hours of Chef's kitchen are from X pm to Y pm ($1 \leq X < Y \leq 12$). Find the number of hours Chef works.

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int X, Y;
6      cout << "Enter starting time (in pm): ";
7      cin >> X;
8      cout << "Enter ending time (in pm): ";
9      cin >> Y;
10
11     int working_hours = Y - X; // Since  $1 \leq X < Y \leq 12$ 
12
13     cout << "Chef works for " << working_hours << " hours." << endl;
14
15     return 0;
16 }
17
18
19
20
```

OUTPUT:

```
Enter starting time (in pm): 1
Enter ending time (in pm): 3
Chef works for 2 hours.
```

=== Code Execution Successful ===