

DAY - 2

9

10

1 →

Profit % = 25%

11

$$\Rightarrow 25 = \left\{ \frac{SP - 400}{400} \right\} \times 100$$

12

$$\Rightarrow 150 = SP - 400$$

$$\Rightarrow SP = \underline{\underline{550}}$$

1

2

Discount % = 20%

3

$$\Rightarrow 550 = \text{marked price} - \text{marked price} \times \frac{20}{100}$$

4

$$\Rightarrow 550 = M.P - 0.2 M.P$$

$$\Rightarrow 550 = 0.8 M.P$$

5

$$\Rightarrow 550 = \frac{80}{100} M.P$$

6

$$\Rightarrow M.P = \frac{55000}{100}$$

7

$$\Rightarrow \underline{\underline{687.5}}$$

5 → Let cost be x , sold at 20% loss.

NOTES

$$\text{loss \%} = \frac{CP - SP}{CP} \Rightarrow \frac{x - SP}{x} = \frac{20}{100}$$

$$\Rightarrow SP = \underline{\underline{0.8x}}$$

$$\text{Gain \%} = \frac{SP - CP}{CP} \Rightarrow \frac{(0.8x + 300) - x}{x} = \frac{10}{100}$$

$$\Rightarrow 300 - 0.2x = 0.1x$$

$$\Rightarrow 300 = 0.3x$$

$$\Rightarrow 300 = \frac{3}{10}x$$

$$\Rightarrow 3000 = 3x$$

$$\Rightarrow x = \underline{1000}$$

3) Total rice $\Rightarrow 100 \text{ kg} = 200 \text{ Rs}$

$$1 \text{ kg} = 2 \text{ Rs.}$$

$\Rightarrow 60 \text{ kg}$ rice at 20% profit

$$\Rightarrow 60 \text{ kg} = 120 \text{ Rs} \Rightarrow 120 \times \frac{20}{100}$$

means 60 kg rice sell at $\Rightarrow \underline{144 \text{ Rs}} \Rightarrow 120 + 24$

and 40 kg rice at 10% loss

$$\Rightarrow 40 \text{ kg} = 80 \text{ Rs} \Rightarrow 80 \times \frac{10}{100} \Rightarrow \underline{8}$$

means 40 kg sell at $80 - 8 \Rightarrow \underline{72}$

$$\text{Total selling price} = 144 + 72 = 216 //$$

$$\text{profit} = \underline{16} \text{ Rs.}$$

$$\Rightarrow \frac{16 \times 100}{200} = \underline{8\%} \text{ profit with no loss.}$$

$$\underline{4} \rightarrow \text{SP} = 1200$$

Now 20% of SP

$$\Rightarrow 1200 \times 20/100$$

$$\Rightarrow \underline{240}$$

$$\Rightarrow 1200 - 240 = \underline{960} \text{ \{cost price for retailer\}}$$

Now 30% of {CP of retailer}

$$\Rightarrow 960 \times \frac{30}{100} = 288$$

$$\Rightarrow 960 - 288$$

NOTES

$$\Rightarrow \underline{672} \text{ \{cost price for manufacturer\}}$$

Reasoning

1 → Name of these

2 → Ben

3 → Aunt

4 → Brother-in-law

5 → A//

6 → 50%

7 → Eric

8 → 10

9 → 33, 29, 25, 17, 11

10 → 630

```
C:\Users\ayush\Documents\fib.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug fib.cpp
1 #include <bits/stdc++.h>
2 using namespace std;
3 int main() {
4
5     int i, n;
6
7     int t1 = 0, t2 = 1;
8
9     int nextTerm = t1 + t2;
10
11     cout<<"Enter the number of terms: ";
12     cin>>n;
13
14     printf("Fibonacci Series: %d, %d, ", t1, t2);
15
16     for (i = 3; i <= n; ++i) {
17         printf("%d, ", nextTerm);
18         t1 = t2;
19         t2 = nextTerm;
20         nextTerm = t1 + t2;
21     }
22
23     return 0;
24 }
```

line: 14 Col: 48 Sel: 0 Lines: 24 Length: 380 Insert Done parsing in 0 seconds

35°C Partly cloudy Search ENG IN 20:57 24-05-2023

C:\Users\ayush\Documents\fbccpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

Project Class

C:\Users\ayush\Documents\fbccpp

World Hello

Process exited after 0.04816 seconds with return value 0
Press any key to continue . . .

```
34 cout << rev;  
35 return 0;  
36 }
```

Line: 31 Col: 1 Sel: 0 Lines: 36 Length: 468 Insert Done parsing in 0.016 seconds

C:\Users\ayush\Documents\fbccpp - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug fbccpp

```
9
10     str.insert(str.end(), ' ');
11
12     int n = str.length();
13
14     int j = 0;
15
16     for (int i = 0; i < n; i++) {
17
18         if (str[i] == ' ') {
19             reverse(str.begin() + j, str.begin() + i);
20
21             j = i + 1;
22         }
23     }
24
25     return str;
26 }
27
28 int main()
29 {
30     string str = "Hello World";
31
32     string rev = reverseString(str);
33
34     cout << rev;
35     return 0;
36 }
```

line: 30 Col: 30 Sel: 0 Lines: 36 Length: 468 Insert Done parsing in 0.016 seconds

C:\Users\ayush\Documents\fbccpp - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug fbccpp

```
1 #include <bits/stdc++.h>
2 using namespace std;
3
4 string reverseString(string str)
5 {
6
7     reverse(str.begin(), str.end());
8
9     str.insert(str.end(), ' ');
10
11     int n = str.length();
12
13     int j = 0;
14
15     for (int i = 0; i < n; i++) {
16
17         if (str[i] == ' ') {
18             reverse(str.begin() + j, str.begin() + i);
19             j = i + 1;
20         }
21     }
22
23     return str;
24 }
25
26 int main()
27 {
28
29 }
```

line: 30 Col: 30 Sel: 0 Lines: 36 Length: 468 Insert Done parsing in 0.016 seconds

