

Q.5 WAP using ternary operator, the user should input the length and breadth of a rectangle, one has to find out which rectangle has the highest perimeter. The minimum number of rectangle should be three.

```
# include <stdio.h>
```

```
int main() {
    int l1, b1, l2, b2, l3, b3;
    int P1, P2, P3, max;
```

```
printf ("Enter length & breadth of rectangle 1: ");
scanf ("%d %d", &l1, &b1);
```

```
printf ("Enter length & breadth of rectangle 2: ");
scanf ("%d %d", &l2, &b2);
```

```
printf ("Enter length & breadth of rectangle 3: ");
scanf ("%d %d", &l3, &b3);
```

$$P1 = 2 \times (l1 + b1);$$

$$P2 = 2 \times (l2 + b2);$$

$$P3 = 2 \times (l3 + b3);$$

$$\text{max} = (P1 > P2) ? ((P1 > P3) ? P1 : P3) : ((P2 > P3) ? P2 : P3);$$

if (max = \approx P1)

```
printf ("Rectangle 1 has highest perimeter = %d", max);
```

else if ($\max = P_2$)

Printf ("Rectangle 2 has highest perimeter = %. d | n",
 $\max);$

else
Printf ("Rectangle 3 has highest perimeter = %. d | n",
 $\max);$

return 0;

}

A screenshot of a Mac desktop showing a terminal window. The window has tabs at the top, with the active tab labeled "main.c". Below the tabs is a toolbar with icons for copy, paste, share, and run. The main area contains the following C code:

```
1 #include <stdio.h>
2
3 int main() {
4     int year, days = 0, i;
5
6     char *week_days[] = {"Monday", "Tuesday", "Wednesday",
7                         "Thursday", "Friday", "Saturday", "Sunday"};
8
9     printf("Enter year: ");
10    scanf("%d", &year);
11
12    for (i = 1; i < year; i++) {
13        if ((i % 400 == 0) || (i % 4 == 0 && i % 100 != 0)) {
14            days += 366;
15        } else {
16            days += 365;
17        }
18
19        int day_index = days % 7;
20
21        printf("On 01/01/%d, it was a %s.\n", year,
22               week_days[day_index]);
23
24    }
}
```

The "Output" tab is selected, showing the results of running the code. The output is:

```
Enter year: 2026
On 01/01/2026, it was a Thursday.

*** Code Execution Successful ***
```

Below the terminal window, the Mac Dock is visible, displaying icons for various applications like Finder, Mail, Safari, and others.