

```
/*
```

This is a program to find out the result of a definite integration (from 0 to 3) of a function  $y = x + 1$  using Trapezoid rule.

This program is created by Mohammad Sazzad Hossain.

```
*/
```

```
#include <iostream.h>
```

```
int main (){
```

```
double x = 0, y = 0, f = 0;
```

```
float intv = 0.00001, low = 0, up = 3;
```

```
do {
```

```
    y = x + 1;
```

```
    f += intv * y;
```

```
    x += intv;
```

```
}while (x < up);
```

```
cout << f << endl;
```

```
return 0;
```

```
}
```