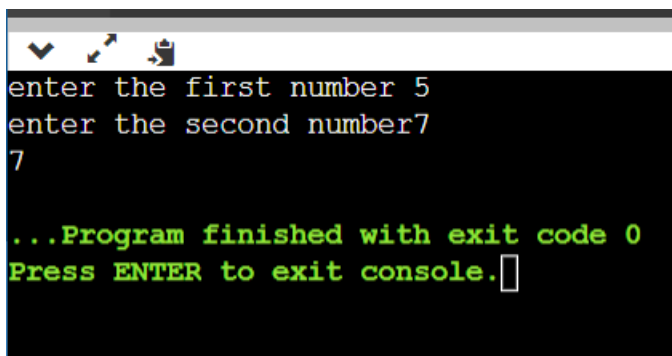


ANS-1=

```
#include<iostream>
using namespace std;
int main(){
    int x;
    cout<<"enter the first number ";
    cin>>x;
    int y;
    cout<<"enter the second number";
    cin>>y;
    if(x>y) cout<<x;
    else cout<<y;
}
```

OUTPUT=



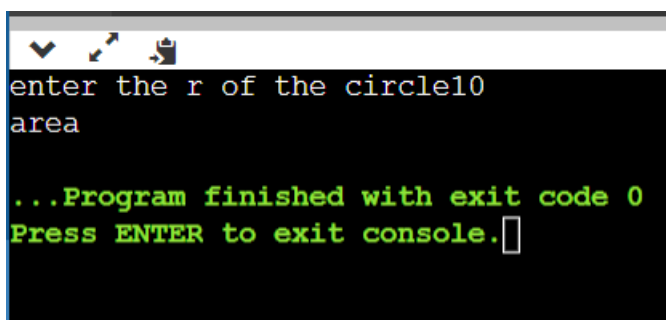
```
enter the first number 5
enter the second number 7
7

...Program finished with exit code 0
Press ENTER to exit console.
```

ANS-2=

```
#include<iostream>
using namespace std;
int main(){
    int r;
    cout<<"enter the r of the circle";
    cin>>r;
    float area = r*3.14*r;
    float circumference = 2*3.14*r;
    if(area>circumference) cout<<"area";
    else cout<<"circumference";
}
```

OUTPUT=



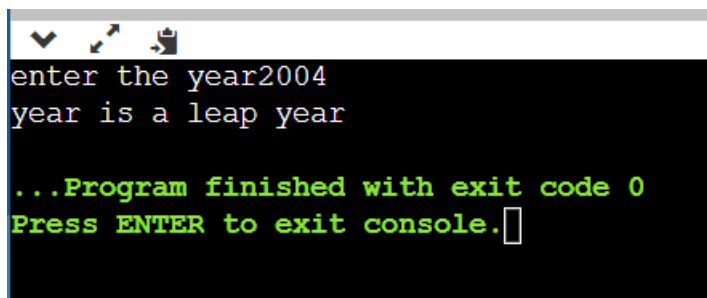
```
enter the r of the circle 10
area

...Program finished with exit code 0
Press ENTER to exit console.
```

ANS-3=

```
#include<iostream>
using namespace std;
int main(){
    int year;
    cout<<"enter the year";
    cin>>year;
    if(year%4==0) cout<<"year is a leap year";
    else cout<<"year is not a leap year";
}
```

OUTPUT=

A screenshot of a terminal window showing the execution of a C++ program. The prompt 'enter the year' is followed by the input '2004'. The output is 'year is a leap year'. Below this, a green message states '...Program finished with exit code 0' and 'Press ENTER to exit console.' with a cursor icon.

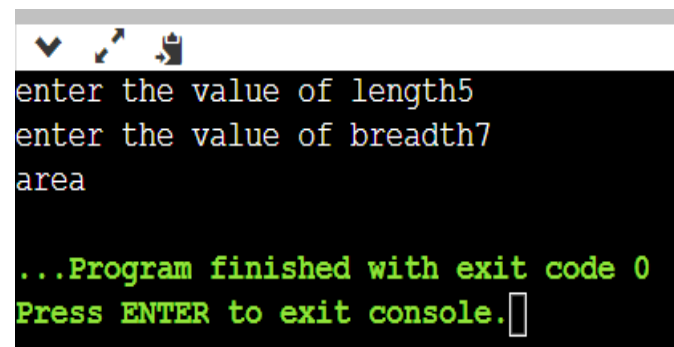
```
enter the year2004
year is a leap year

...Program finished with exit code 0
Press ENTER to exit console.
```

ANS-4=

```
#include<iostream>
using namespace std;
int main(){
    int length;
    cout<<"enter the value of length";
    cin>>length;
    int breadth;
    cout<<"enter the value of breadth";
    cin>>breadth;
    int area =length*breadth;
    int circumference=2*length+breadth;
    if (area>circumference) cout<<"area";
    else cout<<"circumference";
}
```

OUTPUT=

A screenshot of a terminal window showing the execution of a C++ program. The prompt 'enter the value of length' is followed by the input '5'. The next prompt 'enter the value of breadth' is followed by the input '7'. The output is 'area'. Below this, a green message states '...Program finished with exit code 0' and 'Press ENTER to exit console.' with a cursor icon.

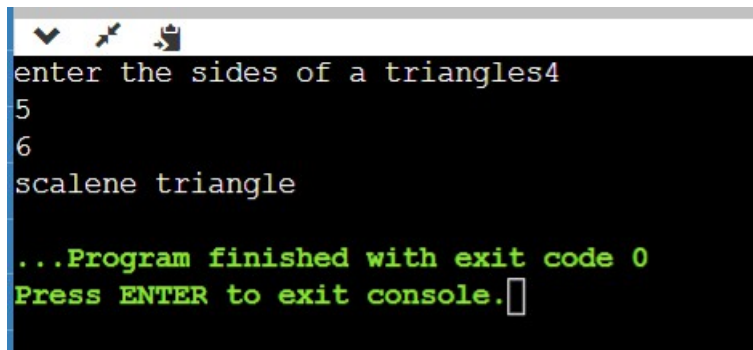
```
enter the value of length5
enter the value of breadth7
area

...Program finished with exit code 0
Press ENTER to exit console.
```

ANS-5=

```
#include<iostream>
using namespace std;
int main(){
    int side1,side2,side3;
    cout<<"enter the sides of a triangles";
    cin>>side1>>side2>>side3;
    if(side1==side2 && side2==side3) cout<<"equitorial triangle";
    else if(side1==side2 ||side2==side3 ||side1==side3) cout<<"isoscales triangle";
    else cout<<"scalene triangle";
}
```

OUTPUT=

A screenshot of a terminal window with a black background and white text. The text shows the execution of a C++ program that asks for the sides of a triangle. The user enters '4', '5', and '6'. The program outputs 'scalene triangle'. At the bottom, it says '...Program finished with exit code 0' and 'Press ENTER to exit console.' with a cursor.

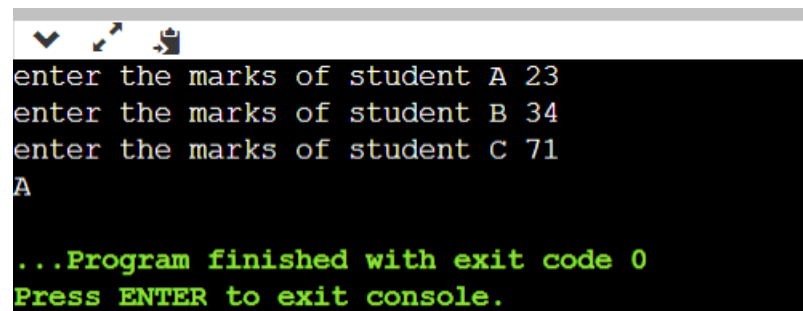
```
enter the sides of a triangles4
5
6
scalene triangle

...Program finished with exit code 0
Press ENTER to exit console.
```

ANS-6=

```
#include<iostream>
using namespace std;
int main(){
    int a;
    cout<<"enter the marks of student A ";
    cin>>a;
    int b;
    cout<<"enter the marks of student B ";
    cin>>b;
    int c;
    cout<<"enter the marks of student C ";
    cin>>c;
    if(a<=b && a<=c) cout<<"A";
    else if(b<=c && b<=a) cout<<"B";
    else cout<<"C";}
```

OUTPUT=

A screenshot of a terminal window with a black background and white text. The text shows the execution of a C++ program that asks for marks of three students. The user enters '23', '34', and '71'. The program outputs 'A'. At the bottom, it says '...Program finished with exit code 0' and 'Press ENTER to exit console.' with a cursor.

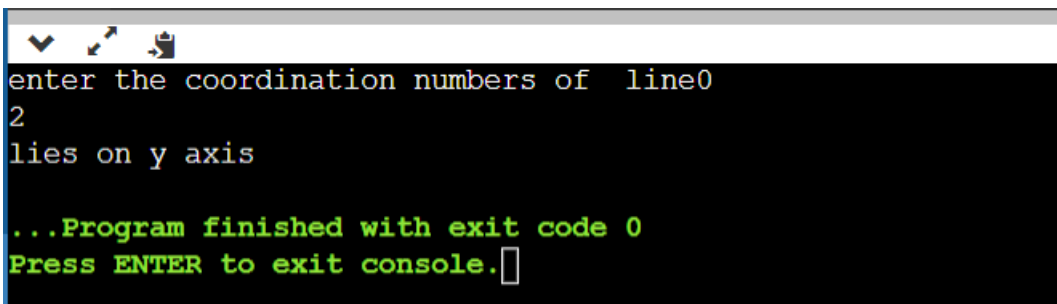
```
enter the marks of student A 23
enter the marks of student B 34
enter the marks of student C 71
A

...Program finished with exit code 0
Press ENTER to exit console.
```

ANS-7=

```
#include<iostream>
using namespace std;
int main(){
    int x,y;
    cout<<"enter the coordination numbers of line";
    cin>>x>>y;
    if(x==0 && y==0) cout<<"lies on straigth line";
    else if(x==0 && y!=0) cout<<"lies on y axis";
    else if(x!=0 && y==0) cout<<"lies on x axis";
    else cout<<"lies on plane";
}
```

OUTPUT=

A screenshot of a terminal window with a dark background. The text is as follows:

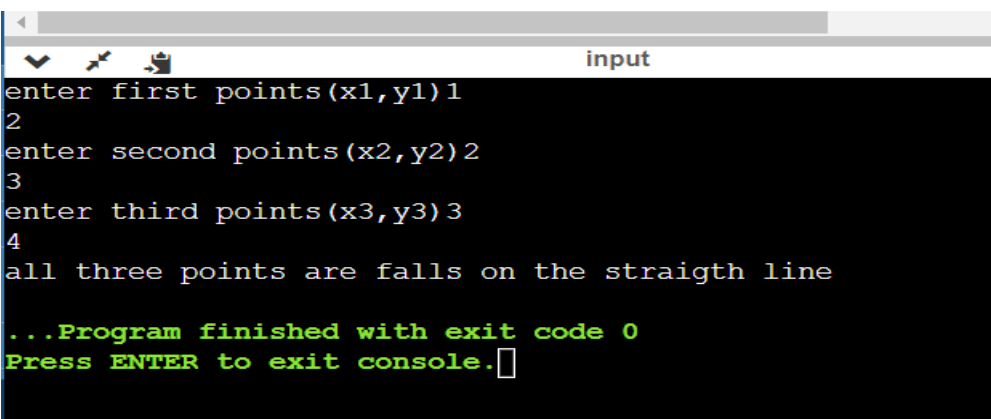
```
enter the coordination numbers of line0
2
lies on y axis

...Program finished with exit code 0
Press ENTER to exit console.
```

ANS-8=

```
#include<iostream>
using namespace std;
int main(){
    int x1,y1;
    cout<<"enter first points(x1,y1)";
    cin>>x1>>y1;
    int x2,y2;
    cout<<"enter second points(x2,y2)";
    cin>>x2>>y2;
    int x3,y3;
    cout<<"enter third points(x3,y3)";
    cin>>x3>>y3;
    int slope1=y2-y1/x2-x1;
    int slope2=y3-y2/x3-x2;
    if(slope1 == slope2) cout<<"all three points are falls on the straigth line";
    else cout<<"all three points are not falls on the straigth line";}
```

OUTPUT=

A screenshot of a terminal window with a dark background. The text is as follows:

```
enter first points(x1,y1)1
2
enter second points(x2,y2)2
3
enter third points(x3,y3)3
4
all three points are falls on the straigth line

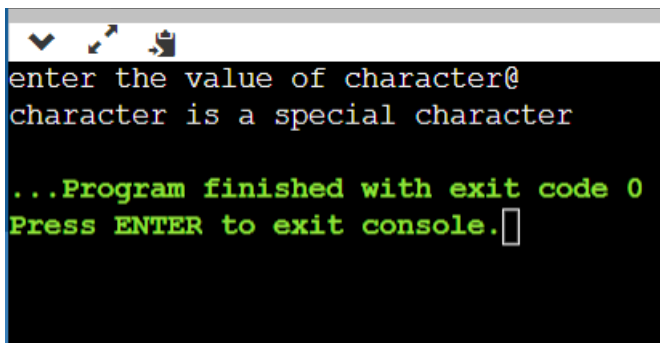
...Program finished with exit code 0
Press ENTER to exit console.
```

ANS-9=

```
#include<iostream>
using namespace std;
int main(){
    char ch;
    cout<<"enter the value of character";
    cin>>ch;
    if(ch >='a' && ch <='z' || ch>= 'A' && ch<='Z') cout<<"character is an alphabet";
    else if(ch>= '0' && ch<='9') cout<<"character is a digit";
    else cout<<"character is a special character ";

}
```

OUTPUT-

A screenshot of a terminal window with a black background and white text. The prompt 'enter the value of character@' is shown, followed by the output 'character is a special character'. Below this, green text indicates the program finished with exit code 0 and prompts the user to press ENTER to exit the console.

```
enter the value of character@
character is a special character

...Program finished with exit code 0
Press ENTER to exit console.
```

ANS-10=

```
#include<iostream>

using namespace std;

int
main ()
{

int a = 500, b, c;

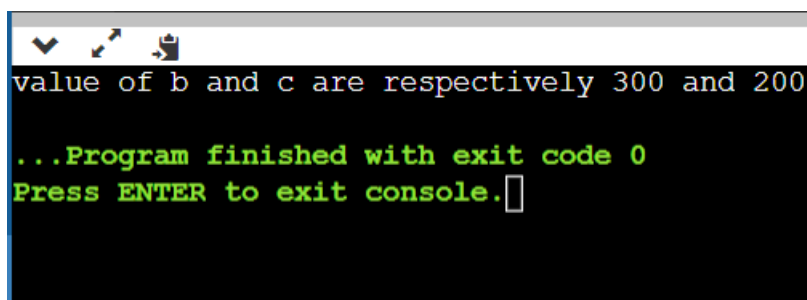
if (a >= 400)

b = 300;

c = 200;

cout << "value of b and c are respectively " << b << " and " << c;}
```

OUTPUT-

A screenshot of a terminal window with a black background and white text. The output 'value of b and c are respectively 300 and 200' is displayed. Below this, green text indicates the program finished with exit code 0 and prompts the user to press ENTER to exit the console.

```
value of b and c are respectively 300 and 200

...Program finished with exit code 0
Press ENTER to exit console.
```

