1)

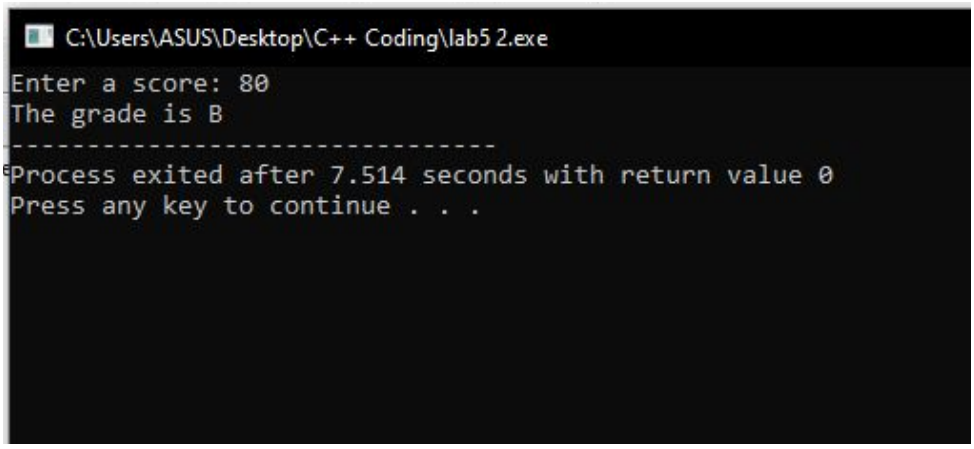
```
#include <iostream>
#include <conio.h>
using namespace std;
int max(int num1, int num2) {
int result;
if (num1 > num2)
result = num1;
else
result = num2;
return result;
}
int main()
{
int i = 5;
int j = 2;
int k = max(i, j);
cout << "The maximum between " << i << " and " << j << " is " << k;
getch();
return 0;
}
```

2)

```
#include <iostream>
#include <conio.h>
using namespace std;
void printGrade(double score)
{
if (score < 0 || score > 100) {
cout << "Invalid score";
return;
}
if (score >= 90.0)
cout << 'A';
else if (score >= 80.0)
cout << 'B';
else if (score >= 70.0)
cout << 'C';
else if (score >= 60.0)
cout << 'D';
else
cout << 'F';
}
int main()
```

```
{
cout << "Enter a score: ";
double score;
cin >> score;
cout << "The grade is ";
printGrade(score);
getch();
return 0;
}
```

Output



3)

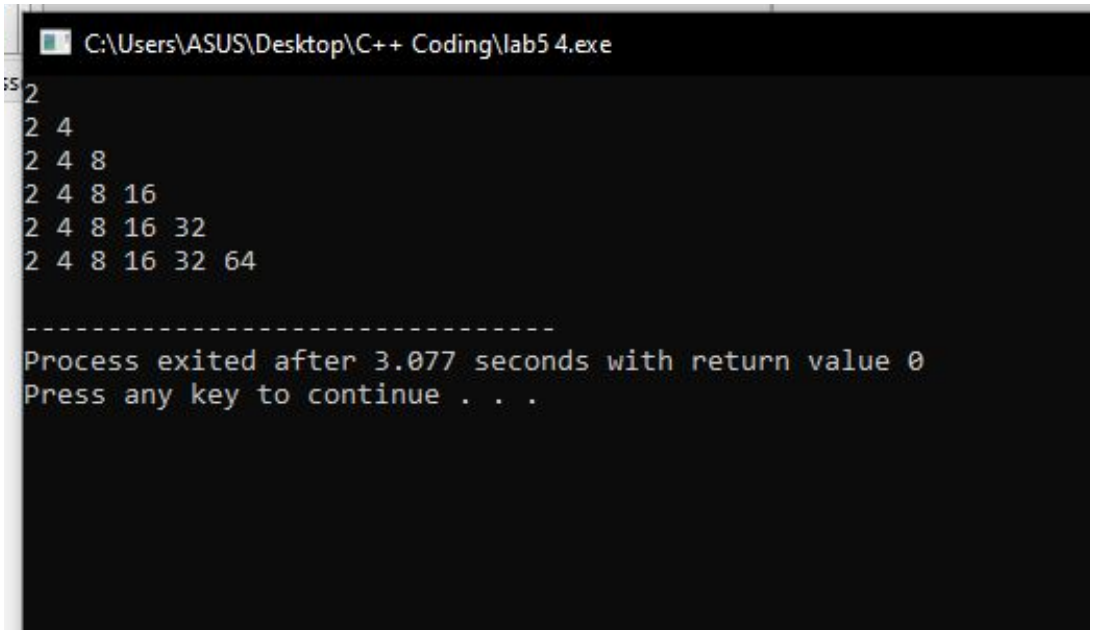
```
#include <iostream>
#include <conio.h>
using namespace std;
/** Swap two variables */
void swap(int n1, int n2)
{
cout << "\tInside the swap function" << endl;
cout << "\t\tBefore swapping n1 is " << n1 << " n2 is " << n2 << endl;
// Swap n1 with n2
int temp = n1;
n1 = n2;
n2 = temp;
cout << "\t\tAfter swapping n1 is " << n1 << " n2 is " << n2 << endl;
}
int main()
{
// Declare and initialize variables
int num1 = 1;
int num2 = 2;
```

```
cout << "Before invoking the swap function, num1 is " << num1 << " and num2 is " << num2 <<
endl;
// Invoke the swap function to attempt to swap two variables
swap(num1, num2);
cout << "After invoking the swap function, num1 is " << num1 << " and num2 is " << num2 <<
endl;
getch();
return 0;
}
```

4)

```
#include <iostream>
#include <conio.h>
using namespace std;
void bintang(int i , int num)
{
for (int j = 1; j<= i; j++)
{
cout << num << " ";
num *=2;
}
cout << endl;
}
int main()
{
int i = 1;
while (i <= 6)
{
bintang(i,2);
i++;
}
getch();
return 0;
}
```

Output



2)

```
#include <iostream>
#include <conio.h>
using namespace std;
int main() {
double celsius;
double c1, c2, c3;
double farenheit;
double f1, f2, f3;

cout << "Enter 3 Celsius : " << endl;
cin >> c1 >> c2 >> c3;
cout << "Enter 3 Farenheit : " << endl;
cin >> f1 >> f2 >> f3;

double fc1 = (9.0/5)*c1+32;
double fc2 = (9.0/5)*c2+32;
double fc3 = (9.0/5)*c3+32;

double cf1 = (f1-32)*5/9;
double cf2 = (f2-32)*5/9;
double cf3 = (f3-32)*5/9;

cout << "Celsius       Farenheit  |  Farenheit      Celsius   " << endl;
cout << "  " << c1 << "           " << fc1 << "     |       " << f1 << "          " << cf1 << endl;
cout << "  " << c2 << "           " << fc2 << "     |       " << f2 << "          " << cf2 << endl;
cout << "  " << c3 << "           " << fc3 << "     |       " << f3 << "          " << cf3 << endl;
```

```
return 0;
}
```

Output