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### **LABSKILL 5**

1. 

```
#include <iostream>
#include <conio.h>
using namespace std;
/** Return the max between two numbers */
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 << endl;
    return 0;
}
```
2. 

```
#include <iostream>
#include <conio.h>
using namespace std;
/** Print grade for the score */
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:**

```

Enter a score: 10
The grade is F

```

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
2 4
2 4 8
2 4 8 16
2 4 8 16 32
2 4 8 16 32 64

```

## **LABSKILL 6**

```
#include<iostream>
#include<conio.h>
using namespace std;
int main ()
{
double Celcius;
double C1, C2, C3;
double Fahrenheit;
double F1, F2, F3;
cout << "Please enter your three temperature Celcius : " << endl;
cin >> C1 >> C2 >> C3;
cout << "Please enter your three temperature Fahrenheit : " << 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 << " Celcius   Fahrenheit | Fahrenheit   Celcius" << endl;
cout << " " << C1 << " " << FC1 << " | " << F1 << " " << CF1 << endl;
cout << " " << C2 << " " << FC2 << " | " << F2 << " " << CF2 << endl;
cout << " " << C3 << " " << FC3 << " | " << F3 << " " << CF3 << endl;
return 0;
}
```

### **OUTPUT:**

```
Please enter your three temperature Celcius :
40.0
39.0
31.0
Please enter your three temperature Fahrenheit :
120.0
110.0
30.0
Celcius   Fahrenheit | Fahrenheit   Celcius
40 104 | 120 48.8889
39 102.2 | 110 43.3333
31 87.8 | 30 -1.11111
```