

Introduction to Computing

Lecture 8

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Practice Questions





Questions

Write a C++ program that prompts the user to input two integer values and find the greatest value of the two values.



Solution

```
#include <iostream>
using namespace std;

int main()
{
    int a, b;
    cin >> a;
    cin >> b;

    if (a > b)
    {
        cout << "Max: " << a; //output max
    }

    else
    {
        cout << "Max: " << b; //output max
    }
    return 0;
}
```



Questions

Write a C++ program that prompts the user to input three integer values and find the greatest value of the three values.



Solution

```
#include <iostream>
using namespace std;

int main()
{
    int a, b, c;
    cin >> a;
    cin >> b;
    cin >> c;

    if ((a > b) && (a > c))
        cout << "Max: " << a; //output max

    else if ((b > a) && (b > c))
        cout << "Max: " << b; //output max

    else
        cout << "Max: " << c; //output max

    return 0;
}
```

Solution

```
#include <iostream>
using namespace std;

int main()
{
    int a, b, c, max;
    cin >> a;
    cin >> b;
    cin >> c;

    max = a; //let max take the first value

    if (max < b)
        max = b; // compare max with b and update max

    if (max < c)
        max = c; //compare max with c and take c

    cout << "Max: " << max; //output max
    return 0;
}
```



Questions

Write a C++ program that tells whether the input number is even or odd.



Solution

```
#include<iostream>
using namespace std;
int main()
{
    int num;
    cout << "Enter a number :";
    cin >> num;

    if (num % 2 == 0)
    {
        cout << "This is an even number";
    }
    else
    {
        cout << "This is an odd number";
    }
}
```



Questions

Write a C++ program that tells whether the input number is even or odd using Switch.

```
#include<iostream>
using namespace std;
int main()
{
    int num;
    cout << "Enter a number :";
    cin >> num;
    int choice = num % 2;

    switch (choice)
    {
    case 0:
        cout << "This is an even number";
        break;
    case 1:
        cout << "This is an odd number";
        break;
    }
}
```



Questions

Write a method with a while loop to prints **n** through **0** in square brackets.
For example, if n = 6 print

Please enter number: <6>

[6] [5] [4] [3] [2] [1] [0]



Solution

```
#include <iostream>
using namespace std;

int main()
{
    int n;

    cout << "Please enter number :";
    cin >> n;

    int i = n;

    while (i >= 0)
    {
        cout << "[" << i << "]" ";
        i--;
    }

    return 0;
}
```



Questions

Write a C++ program that prompts the user to input like this:

1/2

and your program output:

0.5



Solution

```
#include<iostream>
using namespace std;
int main()
{
    float nominator;
    float denominator;
    char useless;

    cout << "Enter expression :";
    cin >> nominator >> useless >> denominator;
    cout << "Answer : "<< nominator/denominator;
}
```




Write program to check whether a character is alphabet or not



Solution

```
#include <iostream>
using namespace std;

int main()
{
    char ch;
    cin >> ch;

    if ((ch >= 97 && ch <= 122) || (ch >= 65 && ch <= 90))
    {
        printf("Character is an ALPHABET.");
    }
    else
    {
        printf("Character is NOT ALPHABET.");
    }

    return 0;
}
```



Questions

Write program to which takes alphabet as an input and print next alphabet



Solution

```
#include <iostream>
using namespace std;

int main()
{
    char ch;

    cin >> ch;

    cout << "Next character is: " << ++ch;

    return 0;
}
```

Thanks a lot



If you are taking a Nap, **wake up**.....Lecture Over