Interfaces in C++ (Abstract Classes)

Abstract classes are the way to achieve abstraction in C++. Abstraction in C++ is the process to hide the internal details and showing functionality only. Abstraction can be achieved by two ways:

1. Abstract class

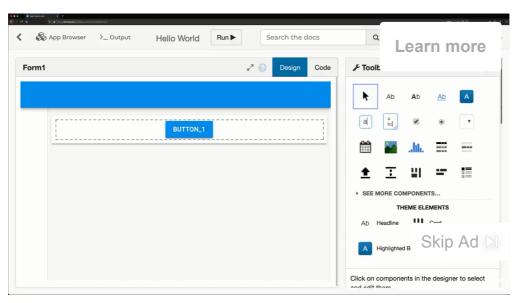
2. Interface

Abstract class and interface both can have abstract methods which are necessary for abstraction.

C++ Abstract class

In C++ class is made abstract by declaring at least one of its functions as <>strong>pure virtual function. A pure virtual function is specified by placing "= 0" in its declaration. Its implementation must be provided by derived classes.

Let's see an example of abstract class in C++ which has one abstract method draw(). Its implementation is provided by derived classes: Rectangle and Circle. Both classes have different implementation.



```
#include <iostream>
using namespace std;
class Shape
{
   public:
    virtual void draw()=0;
};
class Rectangle : Shape
{
```

```
public:
   void draw()
  {
     cout < <"drawing rectangle..." < <endl;</pre>
  }
};
class Circle: Shape
{
  public:
   void draw()
     cout <<"drawing circle..." < <endl;
  }
};
int main() {
  Rectangle rec;
  Circle cir;
  rec.draw();
  cir.draw();
  return 0;
}
```

Output:

```
drawing rectangle...
drawing circle...
```

(i) X

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