

The decltype Keyword Exercises

decltype

- Describe the decltype keyword

decltype vs auto

- What are the main differences between the auto keyword and decltype?
- Write a simple program to illustrate your answer

decltype with lvalues and rvalues

- What is the result of decltype when the argument is
- A named variable
- An expression which returns an lvalue
- A prvalue
- An xvalue

decltype(auto)

- What happens if the argument to decltype is "auto"?
- Write a simple program to illustrate your answer

Applications of decltype

- Give two applications of decltype
- Write a simple program to illustrate your answer