

# Lambda Functions Part Three Solutions

- Describe what happens when a lambda expression is stored in a variable
  - The compiler creates a suitable functor object, as usual, then stores it in the variable
- What type is used for the variable that the lambda expression is saved in?
  - We use the “auto” keyword so that the compiler will provide the type of the object it has created
- Write a simple program that saves a lambda expression in a variable and then uses the variable as a predicate

- Is it possible to use a lambda expression as the return value from another function?
  - Yes
- Give an example of a situation where this could be useful
  - This is a common technique in functional programming. A function is partially evaluated, then returned for the caller to complete the evaluation
  - In the video, we created a function that could calculate the payrise for any given salary, then returned it to the caller who calculated the payrise for a particular salary