Answer the following questions in a document. Please include blank lines between your answers.

1. Describe the code that is executed. Be specific! Graphically describe what the object referenced by discardPile looks like. (Note: you should leave enough room to draw the DiscardPile object after printing the document)

What’s happening is that the output is printing out the cards in that list of 10, but backwards. The object that’s referenced by discardPile is a Card[], which is an object that’ll be stacked along with other Card[] objects.

1. Which card is on the top of the discard pile? What card is associated with the integer 2? What card is associated with the integer 19?

The card that’s on the top by default is the “4 of Spades”, since that’s the last card that’s placed onto the stack, whilst the first card is the “10 of Clubs”. Integer 19 is associated with the “8 of Diamond”, and integer 2 is the “4 of Clubs”.

1. Why is it necessary to make the discard pile empty and repopulate it before attempting another call to removeTopCards?

Because a portion of the cards, the top cards to a specific card, were already removed from the pile, so it wouldn’t be possible to do that operation again without repopulating the discardPile.