1. Debug (correct the errors) in the following program, and replace the numbered comment lines with comments that explain what the line of code below each number does:

```perl
#!/usr/bin/perl
# Script with errors - correct them, then replace numbered lines
# with comments describing code below each comment line

print Something isn't right here\n"

# 1
print "Enter a collection of vowels: ";
# 2
$vowelString = <STDIN>;

$bw ~ reverse vowelString;
# 3
for ($c = 0; $c < 4; c++)
{
    print (c+1);
    # 4
    print \n\n;

    # 5
    $vowelString =~ s/A/X/g;
}
exit
```

2. Write a Perl program that reads in the user’s first and last name, then prints them out in the form Last, First. Example output (with sample input in italics):

```
What is your name?  Cate Sheller
Sheller, Cate
```

3. Write a program to reverse transcribe RNA to DNA. Your program should read an RNA string as input and should output the corresponding DNA string.

4. Using the s and/or tr directives, rewrite the following program so that it still works the same without the loop and if/else structures:

```perl
print "Enter single DNA strand: ";
$dnaseq = <STDIN>;
chomp $dnaseq;
print "You entered: ".$dnaseq;
prient "\Opposite strand: ";
for ($i=0;$i<length($dnaseq);$i++)
{
    $nucleo = substr($dnaseq, $i, 1);
    if ($nucleo eq "A") {print "T";}
    elsif ($nucleo eq "C") {print "G";}
    elsif ($nucleo eq "G") {print "C";}
    else {print "A";}
}
exit;
```