CS180: HW4 Solutions

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```
3.20 (10pnts=5+5)
```

a) (5pnts=1+2+2) Write a Java program that prompts user to enter the number of rooms in her room. Save the value entered in a String, convert it to byte and print it...

- **b)** (5pnts) It gives number format exception. The string has the type double which is not parsable as byte.
- 3.21 (20 pnts=5 pnts for getting inputs + 15 pnts for evaluating the expressions(5 pnts for each expression). TA can decide the amount of points for different things.) Write a java program to evaluate each expression in Exercise 3.17.

```
import java.util.Scanner;
public class HW4321{
      public double f(double x){
             //a function
             return x;
      public double g(double x){
             //a function
             return x;
      public double expr_i(double a,double b,double c){
             return f(a)+f(b)+f(c);
      public double expr_ii(double a,double b){
             return f(a*f(b));
      public double expr iii(double a, double b, double c){
             return f(g(a))+g(b)+f(c);
      }
      public static void main(String[] args){
             double a,b,c;
```

```
String response;
             HW4321 hw4321=new HW4321();
             Scanner sc=new Scanner(System.in);
             System.out.println("Enter a");
             response=sc.nextLine();
             a=Double.parseDouble(response);
             System.out.println("Enter b");
             response=sc.nextLine();
             b=Double.parseDouble(response);
             System.out.println("Enter c");
             response=sc.nextLine();
             c=Double.parseDouble(response);
             System.out.println("Expression i:"+hw4321.expr_i(a, b, c));
             System.out.println("Expression ii:"+hw4321.expr_ii(a, b));
             System.out.println("Expression iii:"+hw4321.expr_iii(a, b, c));
      }
}
```