Student Name:	Student ID:	TA:	
Rust Lab 01		2/7/2025	
Follow the instructions provided in e		e exercises; they will be spelled backward so th	ıat
If your computer doesn't have the R the exercises there.	ust compiler installed, you can visit th	ne website https://play.rust-lang.org/ and comp	olete
Lab 01/01 Introduce Yourself			
Print out your first and last name on	the first line, your birthday on the se	econd line, and your favorite food on the third li	ne.
Requirement			
- For your first and last name, you	must use two separate `print` and `p	rintln` statements for first and last name separa	ately.
Expected Output			
My name is John Doe			
12th January 2005			
Steak			
TA Comment:			
Lab 01/02 Volume Calculator			
Calculate the volume of these geom	etric shapes: sphere, cylinder, and co	ne.	
Code Template:			
fn main() {			
let sphere_radius = 1.0 /*can be c	hanged*/;		
let cylinder_radius = 1.0 /*can be	changed*/;		
let cylinder_height = 1.0 /*can be	changed*/;		
let cone_radius = 1.0 /*can be cha	nged*/;		
let cone_height = 1.0 /*can be cha	nnged*/;		
}			
Requirement			
- The calculation must be based or variable changes the output must ch	•	template. Therefore, if the value assigned to the	е
Expected Output			
The volume of the sphere is	2.3		
The volume of the cylinder i	s 9.2		
The volume of the cone is 2	4		
TA Comment:			

Lab 01/03 Speed Limit

Write a program determining whether the car is driving below, over, or within the speed limit. The minimum speed for the program is 40, and the maximum speed is 120.

Code Template:

```
fn main() {
  let speed = 50 /*can be changed*/
}
```

Requirement

- When driving above the speed limit, the program should output "you are driving above the speed limit by {number} km/hr.". You must replace the "{number}" with the number of speed it exceeded.
 - The same goes for below the speed limit, output "you are driving below the speed limit by {number} km/hr."
 - Otherwise, output "you are driving within the speed limit"

Expected Output (Below the Speed Limit Case): "you are driving below the speed limit by 12 km/hr."

Expected Output (Within the Speed Limit Case): "you are driving within the speed limit"

Expected Output (Above the Speed Limit Case): "you are driving above the speed limit by 24 km/hr."

TA Comment:

Lab 01/04 Odd/Positive Number

Write a program that determines whether the number is odd or even and whether the number is positive or negative.

Code Template:

```
fn main() {
  let number = 2 /*can be changed*/;
}
```

Expected Output (Number 5 case): "number 5 is a positive odd number"

Expected Output (Number -2 case): "number -2 is a negative even number"

Expected Output (Number 0 case): "number 0 is a positive even number"

TA Comment:

Hint

Modulus Operator (%)

The modulus operator % calculates the remainder of the division of one number by another. In the expression number % 2, the number number is divided by 2, and the remainder of this division is the result.