LAB 3 STATEMENTS

Name : Keerthana K R

ID : AF0363623

1. **Using input() function take one number from the user and using ternary operators check whether the number is even or odd**

```
# Take number from user
num = int(input("Enter a number: "))

# Using ternary operator to check if the number is even or odd
if(num % 2 == 0):
  print(f"The number {num} is even.") #Print the statement
else:
print(f"The number {num} is odd.") #print the statement
```

Output

```
Enter a number: 78
The number 78 is even.
Enter a number: 45
The number 45 is odd.
```

2. **Using input function take two number and then swap the number**

```
# Take2 numbers input from user
number1 = int(input("Enter the first number: "))
number2 = int(input("Enter the second number: "))

# Print the original numbers
print(f"Before swapping: Number 1 = {number1}, Number 2 = {number2}")

# Swap the numbers
swap = number1
number1 = number2
number2 = swap

# Print the swapped numbers
print(f"After swapping: Number 1 = {number1}, Number 2 = {number2}")
```

Output

```
Enter the first number: 56
Enter the second number: 34
Before swapping: Number 1 = 56, Number 2 = 34
After swapping: Number 1 = 34, Number 2 = 56
```

3. Write a Program to Convert Kilometers to Miles

```
# Take user input for kilometers
kilometers = float(input("Enter distance in kilometers: "))

# Converting kilometers to miles by multiplying with 0.621371
miles = kilometers * 0.621371

# Printing the result
print(f"{kilometers} kilometers is equal to {miles:.2f} miles.")
```

Output

```
Enter distance in kilometers: 546.12
546.12 kilometers is equal to 339.34 miles.
```

4. Find the Simple Interest on Rs. 200 for 5 years at 5% per year.

```
# Take the values from user
principal_amount = int(input("Enter the principal amount : "))  # Principal amount in Rs.
rate_of_interest = float(input("Enter the rate of interest : "))   # Rate of interest per year in percent
time= int(input("Enter the time : "))      # Time in years

# Calculating Simple Interest using formula (P*T*R)/100
simple_interest = (principal_amount * rate_of_interest * time) / 100

# Printing the result
print(f"The Simple Interest on Rs. {principal_amount} for {time} years at {rate_of_interest}% per year is Rs. {simple_interest:.2f}")
```

Output

```
Enter the principal amount : 25000
Enter the rate of interest : 1.5
Enter the time : 5
The Simple Interest on Rs. 25000 for 5 years at 1.5% per year is Rs. 1875.00
```