## Hareesha H M

## AF0364330

#### **LAB 3 Statements**

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

### Code:

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

# Check if the number is even or odd using ternary operators
result = "Even" if num % 2 == 0 else "Odd"

# Print the result
print(f"The number {num} is {result}.")

Output:
```

Enter a number: 9
The number <u>9 is Odd.</u>

Enter a number: 6
The number <u>6 is Even.</u>

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

## Code:

```
# Take input from the user for the first number
num1 = float(input("Enter the first number: "))

# Take input from the user for the second number
num2 = float(input("Enter the second number: "))

# Print the numbers before swapping
print(f"Before swapping: num1 = {num1}, num2 = {num2}")

# Swap the numbers
num1, num2 = num2, num1

# Print the numbers after swapping
```

```
print(f"After swapping: num1 = {num1}, num2 = {num2}")
Output:
Enter the first number: 5
Enter the second number: 20
Before swapping: num1 = 5.0, num2 = 20.0
After swapping: num1 = 20.0, num2 = 5.0
3. Write a Program to Convert Kilometers to Miles.
Code:
# Function to convert kilometers to miles
def km to miles(km):
 # 1 kilometer is equal to 0.621371 miles
 miles = km * 0.621371
 return miles
# Main function
def main():
 # Take input from the user for kilometers
 km = float(input("Enter distance in kilometers: "))
 # Convert kilometers to miles
 miles = km_to_miles(km)
 # Print the result
 print(f"{km} kilometers is equal to {miles} miles.")
# Execute the main function
if __name__ == "__main__":
 main()
Output:
Enter distance in kilometers: 5
5.0 kilometers is equal to 3.106855 miles.
```

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

```
Code:
def calculate simple interest(principal, rate, time):
  # Simple interest formula: SI = (P * R * T) / 100
  simple_interest = (principal * rate * time) / 100
  return simple interest
def main():
  # Input principal amount, rate of interest, and time period from the user
  principal = float(input("Enter the principal amount (in Rs.): "))
  rate = float(input("Enter the rate of interest (in percentage): "))
  time = float(input("Enter the time period (in years): "))
  # Calculate simple interest
  si = calculate_simple_interest(principal, rate, time)
  # Print the result
  print(f"\nThe simple interest on Rs. {principal} for {time} years at {rate}% per year is
Rs. {si:.2f}.")
if __name__ == "__main__":
  main()
Output:
Enter the principal amount (in Rs.): 20000
Enter the rate of interest (in percentage): 4
Enter the time period (in years): 6
The simple interest on Rs. 20000.0 for 6.0 years at 4.0% per year is Rs. 4800.00.
```