```
def temperature_converter():
    try:
        value = float(input("Enter the temperature value: "))
        source_unit = input("Enter the source unit (C for Celsius, F for Fahrenheit): ").upper()
        target_unit = input("Enter the target unit (C for Celsius, F for Fahrenheit): ").upper()

        if source_unit == 'C' and target_unit == 'F':
            result = (value * 9/5) + 32
        elif source_unit == 'F' and target_unit == 'C':
            result = (value - 32) * 5/9
        else:
            print("Unsupported unit conversion.")
            return

        print(f"Result: {result:.2f} {target_unit}")

    except ValueError:
        print("Invalid input. Please enter a numeric value.")
    except Exception as e:
        print(f"An error occurred: {e}")


def length_converter():
    try:
        value = float(input("Enter the length value: "))
        source_unit = input("Enter the source unit (M for meters, F for feet): ").upper()
        target_unit = input("Enter the target unit (M for meters, F for feet): ").upper()

        if source_unit == 'M' and target_unit == 'F':
            result = value * 3.28084
        elif source_unit == 'F' and target_unit == 'M':
            result = value / 3.28084
```

```
        else:
            print("Unsupported unit conversion.")
            return

        print(f"Result: {result:.2f} {target_unit}")

    except ValueError:
        print("Invalid input. Please enter a numeric value.")
    except Exception as e:
        print(f"An error occurred: {e}")


def weight_converter():
    try:
        value = float(input("Enter the weight value : "))
        source_unit = input("Enter the source unit ( KG for kilograms, LB for pounds): ").upper()
        target_unit = input("Enter the target unit ( KG for kilograms, LB for pounds): ").upper()

        if source_unit == 'KG' and target_unit == 'LB':
            result = value * 2.20462
        elif source_unit == 'LB' and target_unit == 'KG':
            result = value / 2.20462
        else:
            print("Unsupported unit conversion.")
            return

        print(f"Result: {result:.2f} {target_unit}")

    except ValueError:
        print("Invalid input. Please enter a numeric value.")
    except Exception as e:
        print(f"An error occurred: {e}")


```

```
67 def main():
68     print("Unit Converter")
69     print("1. Temperature Converter")
70     print("2. Length Converter")
71     print("3. Weight Converter")
72 
73     choice = input("Enter your choice (1, 2, or 3
   ): ")
74 
75     if choice == '1':
76         temperature_converter()
77     elif choice == '2':
78         length_converter()
79     elif choice == '3':
80         weight_converter()
81     else:
82         print("Invalid choice. Please enter 1, 2, or
    3.")
83 
84 
85 if __name__ == "__main__":
86     main()
87 
```