

```
# Accept user inputs for different data types
```

```
user_string = "my name is awais ahmad"
```

```
user_int = 35
```

```
user_float = 32.5
```

```
user_bool = True
```

```
# Print the initialized variables
```

```
print("String:", user_string)
```

```
print("Integer:", user_int)
```

```
print("Float:", user_float)
```

```
print("Boolean:", user_bool)
```

```
# Convert string to uppercase and print
```

```
print("Uppercase String:", user_string.upper())
```

```
# Check if integer is even or odd and print
```

```
if user_int % 2 == 0:
```

```
    print(f"The number {user_int} is Even")
```

```
else:
```

```
    print(f"The number {user_int} is Odd")
```

```
# Multiply float by 2 and print
```

```
print("Doubled float:", user_float * 2)
```

```
# Accept two numbers as input from the user
```

```
num1 = 786
```

```
num2 = 2005
```

```
# Arithmetic operations
```

```
print("Addition:", num1 + num2)
print("Subtraction:", num1 - num2)
print("Multiplication:", num1 * num2)
print("Division:", num1 / num2)
print("Modulus:", num1 % num2)
print("Floor Division:", num1 // num2)
```

Comparison operators

```
print("First number is greater than second:", num1 > num2)
print("First number is equal to second:", num1 == num2)
```

Logical operators

```
print("Both conditions are true:", (num1 > num2) and (num2 < 10))
```

Accept a list of integers from a string input

```
input_str = "5 10 12 15 20 8"
num_list = [int(x) for x in input_str.split()]
```

Loop through list and apply conditions

```
for num in num_list:
    if num > 10 and num != 20:
        print(f"Skipping {num}")
        continue
    if num == 20:
        print(f"Breaking at {num}")
        break
    print(num)
else:
    print("Loop ended naturally")
```