R1
Basic Question solving using FlowChart

Create a Flowchart for Making a Sandwich

Start

Get bread

Open bread package

Take out two slices of bread

Is the bread moldy?

No → **Proceed to next step**

Yes → **Throw away bread and get new loaf**

Proceed to next step

Add desired toppings

Place second slice of bread on top

Cut sandwich in half, if desired

Eat sandwich or store for later

Made with Whimsical

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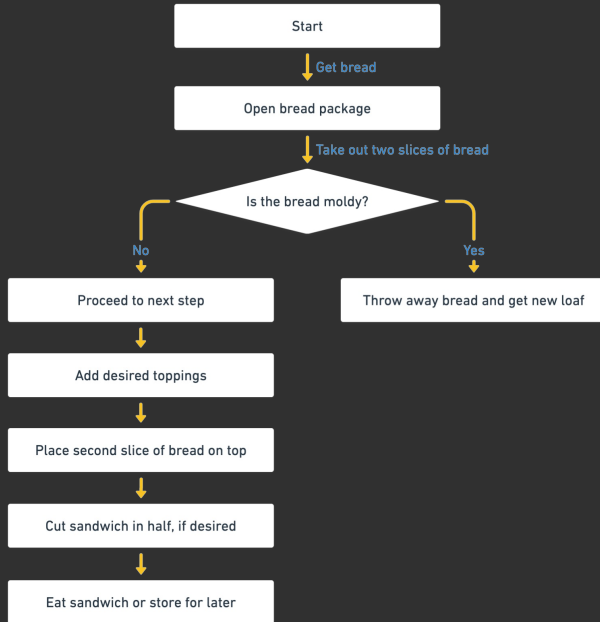
Create a flow chart for area of circle

```
          ┌─────────────────┐
          │   Input radius   │
          └─────────────────┘
       Yes                    No

┌──────────────────────┐      │
│ Calculate area = π * r^2 │   │
└──────────────────────┘      │

┌──────────────────┐   ┌──────────────────────┐
│   Display area    │   │ Display "Invalid input" │
└──────────────────┘   └──────────────────────┘

          ┌─────────────────┐
          │      End         │
          └─────────────────┘
```
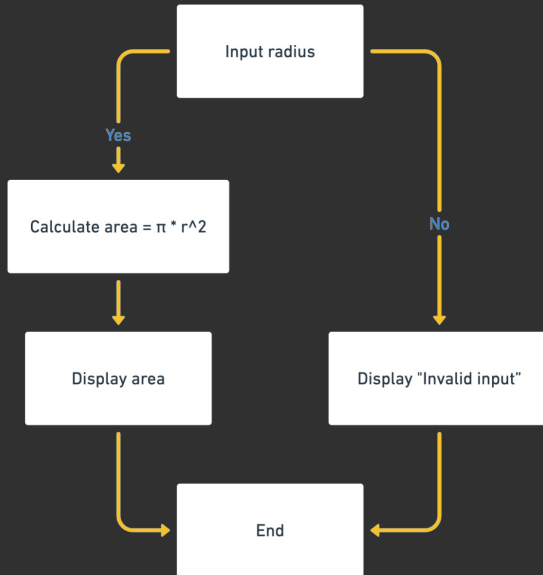
Create a flow chart to find out if number is even or odd

Start

Enter a number

Number is even or odd?

Even

Odd

Display "Number is even

Display "Number is odd
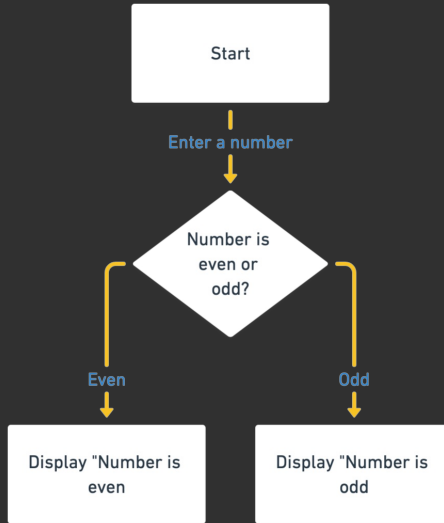
Create a flowchart for a simple calculator

```
                              ┌─────────────┐
                              │    Start    │
                              └─────────────┘
                          Enter first number
                              ◇ Operation ◇
     Addition      Subtraction    Multiplication    Division
   ┌─────────┐    ┌──────────┐    ┌──────────┐    ┌─────────┐
   │   Add   │    │ Subtract │    │ Multiply │    │ Divide  │
   └─────────┘    └──────────┘    └──────────┘    └─────────┘
                    ┌──────────────┐
                    │Display result│
                    └──────────────┘
                         ◇ Another
                           calculation? ◇   Yes
                              No
                              ┌─────────────┐
                              │     End     │
                              └─────────────┘
```
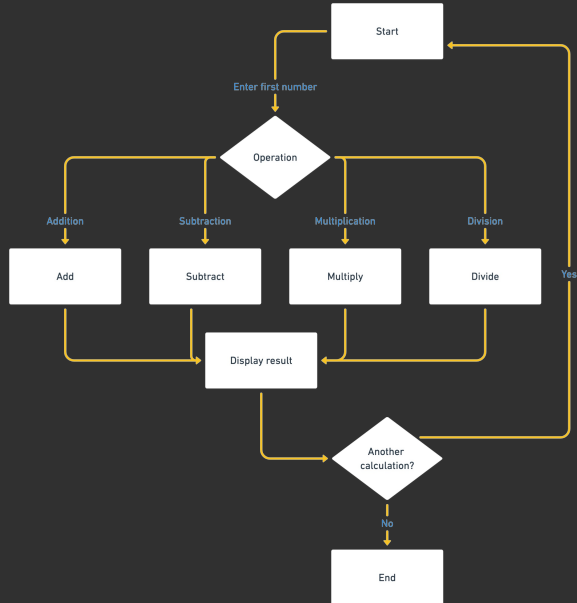
Create a flowchart for ATM withdrawal process

```
                        ┌─────────┐
                        │  Start  │
                        └─────────┘
                         Insert Card
                            │
                        ◇ Valid Card? ◇ ──────────────────┐
                            │ Yes                          │ No
                            │                              │
                    ◇ Sufficient Balance? ◇ ──────┐        │
                            │ Yes                  │ No     │
                            │                      │        │
                  ┌──────────────────┐            │        │
                  │ Enter Withdrawal │            │        │
                  │     Amount       │            │        │
                  └──────────────────┘            │        │
                            │                     │        │
                  ◇ Transaction Successful? ◇     │        │
                     │ Yes          │ No          │        │
              ┌──────────────┐  ┌──────────────┐ ┌──────────────┐ ┌──────────────┐
              │ Dispense Cash│  │ Insufficient │ │ Insufficient │ │ Invalid Card │
              │              │  │ Funds Message│ │   Balance    │ │   Message    │
              │              │  │              │ │   Message    │ │              │
              └──────────────┘  └──────────────┘ └──────────────┘ └──────────────┘
                     │                 │                │                │
              ┌──────────────┐     ┌──────────────┐
              │     End      │     │     End      │
              └──────────────┘     └──────────────┘
```

Start

Insert Card

Valid Card?

Yes — Sufficient Balance?

No — Invalid Card Message

Yes — Enter Withdrawal Amount

No — Insufficient Balance Message

Transaction Successful?

Yes — Dispense Cash — End

No — Insufficient Funds Message — End

Made with Goodnotes

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Thank You!

Please practice more questions and examples as above !!

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