

## Research Problem and Research Question

### Research Problem

- A Research problem is a question that a researcher wants to answer or a problem that a researcher wants to solve.
- statement about an area of concern (situation)
- a condition to be improved
- a difficulty to be eliminated
- a troubling question that exists in scholarly literature, in theory, or in practice



# Main Purpose of Research Problem

It presents the importance of the research topic.

It helps the researcher place the problem in a **specific context** to properly define the parameters of the investigation.

It provides a framework that can help in **presenting the results** in the future.

## Characteristics of Research Problem

- For a problem statement to be effective in the planning of applied research it should have the following <u>characteristics</u> (Andrew and Hildebrand 1982).
- The problem reflects felt needs
- The problem is non-hypothetical, ie it must be based on factual evidence
- It should suggest meaningful and testable hypotheses - to avoid answers that are of little or no use to the alleviation of the problem
- The problems should be relevant and manageable



## Sources of Research Problem

- Personal experience
- Practical experience
- Previous research
- Social issues
- Brainstorming
- Intuition
- Exposure to field situation
- Consultation with experts

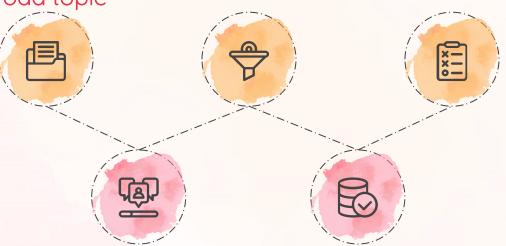
## What is a Research question?

a <u>clear</u>, <u>focused</u>, <u>concise</u>, <u>complex</u> and <u>arguable</u> question around which you center your research.

## Steps in writing a researh questions

Narrow down specific niche

Choose a broad topic



Write your research question

Do some preliminary reading

Identify a practical or theoretical research problem that you will address

### Researh Problem and Research Question

#### **Research Problem**

The teachers at school X do not have the skills to recognize or properly guide gifted children in the classroom.



#### **Research Question**

What practical techniques can teachers at school X use to better identify and guide gifted children?



## Example

#### **Research Problem**

Rising temperature/ heat index causing an increase in heat-related illnesses among vulnerable populations

#### **Research Question**

What are the health impacts of rising temperature and heat index on vulnerable populations?

What interventions can effectively mitigate heat-related illnesses among vulnerable population?

## Example

#### **Research Problem**

Social media platforms face ethical dilemmas when moderating content, balancing freedom of speech with the need to prevent harm.

#### **Research Question**

How do different moderation strategies impact user perceptions of fairness and platform credibility?

What role should AI play in moderating content, and how can algorithmic biases be addressed?

## Crafting the Objectives

	Research Questions	Specific Objectives
	What is the prevalence of heat-related illnesses among vulnerable populations?	To determine the prevalence of heat-related illnesses among vulnerable populations
	What factors increase the risk of heat- related illnesses in vulnerable populations during periods of extreme heat?	To identify the factors contributing to heat- related illnesses in vulnerable populations.
9	What community-based interventions are effective in reducing the incidence of heat-related illnesses in vulnerable populations?	To evaluate the effectiveness of community-based interventions reducing the incidence of heat-related illnesses among vulnerable populations.

### Rule of Thumb in writing a Research questions



1

Avoid YES or NO questions



2

Ask a question that will require you to explain or defend your answer



3

Ask a question that can be tackled in within your page limit

## What is a good research question?



#### Focused and Researchable

- Focuses on a single topic and problem
- · Answerable using primary or secondary data
- Does not ask for a subjective value judgement
- Does not ask why



#### Feasible and Specific

- Answerable within practical constraints
- Uses specific, well-defined concepts
- Does not ask for a conclusive solution, policy, or course of action

#### Complex and Arguable

- Cannot be answered with yes or no
- Cannot be answered with easily found facts and figures
- Provides scope for debate and deliberation



#### Relevant and Original

- Addresses a problem relevant to your field or discipline
- Contributes to a topical social or academic debate
- Has not already been answered



## Wrapped-up

http://youtube.com/watch? v=71-GucBaM8U&ab\_channel=Sc ribbr







Write your research problem and draft your research question/s.