IAQS | INSTITUTE OF ACTUARIAL & QUANTITATIVE STUDIES

Welcomes you to

ACTUARIAL SCIENCE SUMMER PROGRAM

JUNE BATCH, 2025

Let us begin with a QUESTION

🧠 WHAT'S THE RISKIEST THING YOU'VE EVER DONE?

💥 WHAT'S THE SECOND RISKIEST THING?

🎯 AND WHAT ARE THE SMALL, RISKY THINGS YOU DO EVERY SINGLE DAY — WITHOUT EVEN REALIZING IT?

A	P	R	O	B	A	B	I	L	I	T	Y
C	O	R	T	C	Y	T	I	U	N	N	A
T	L	I	A	B	I	L	I	T	Y	S	N
U	I	S	M	L	A	U	T	C	A	O	S
A	C	O	E	N	D	O	W	M	E	N	T
R	R	P	E	N	S	I	O	N	Q	I	N
Y	I	U	L	O	N	G	E	V	I	T	Y
P	O	L	I	C	Y	H	O	L	D	E	R
E	R	I	S	K	D	M	M	E	U	I	X
I	N	S	U	R	A	N	C	E	I	T	T
S	N	O	I	S	N	E	P	G	N	U	Q
I	N	V	E	S	T	M	E	N	T	R	U
N	O	I	T	A	U	L	A	V	A	M	K
S	C	I	T	S	I	T	A	T	S	I	T
M	O	R	T	A	L	I	T	Y	Z	H	G

WHO IS AN ACTUARY?

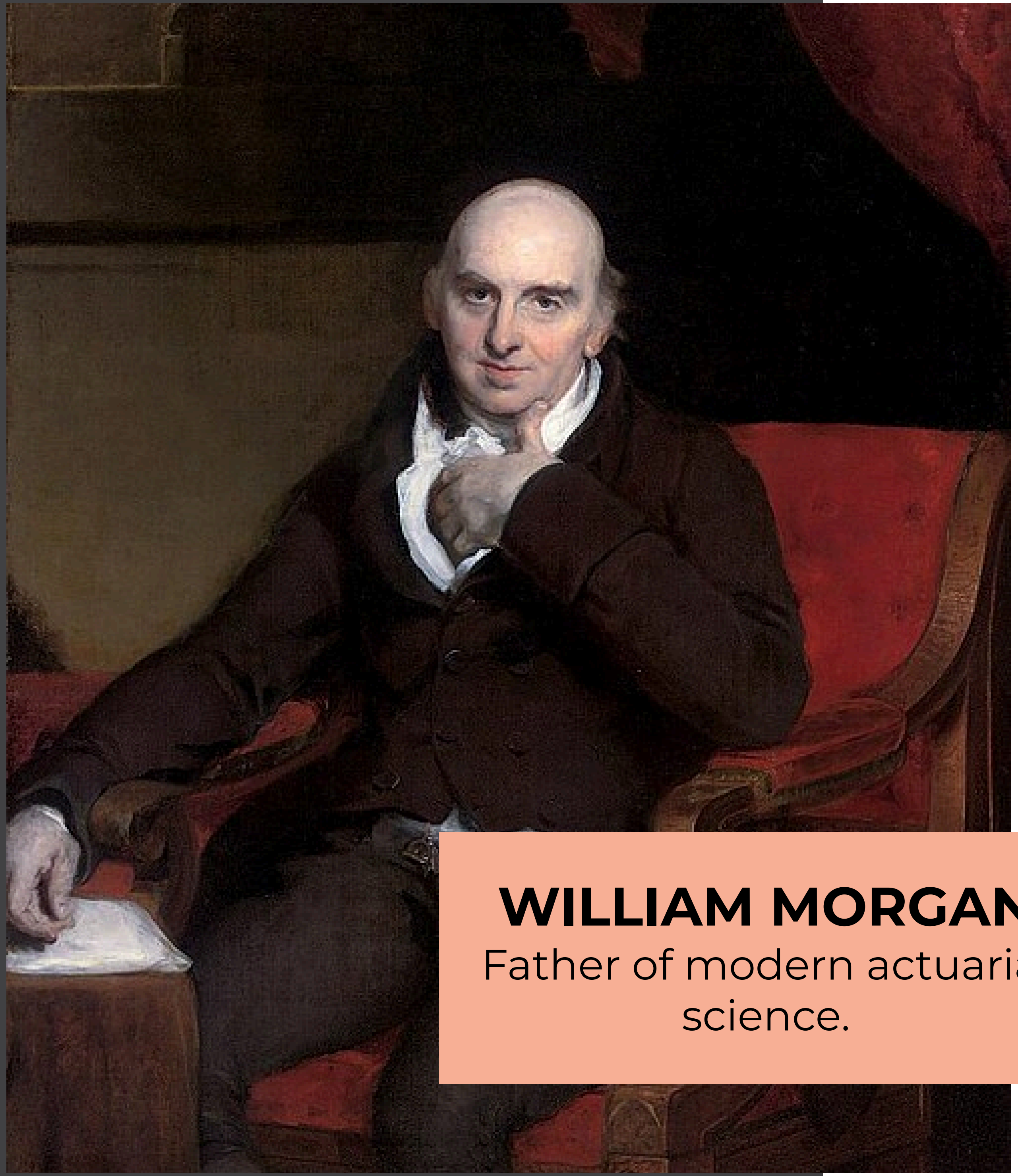
An ACTUARY predicts future...

v/s

AN ACTUARY PREDICTS FUTURE, IDENTIFIES, CALCULATES AND MANAGES RISKS.

IF WE LOOK AT THE MONEY HEIST IN A POSITIVE LIGHT, THEN FOR ALL INTENTIONS AND PURPOSES, THE PROFESSOR WAS AN ACTUARY.

Actuaries Are Everywhere



WILLIAM MORGAN
Father of modern actuarial science.

Actuaries may seem like they're only found in boardrooms or behind spreadsheets, but they're actually everywhere. From the friend who triple-checks the weather forecast before going for a jog, to the parent who packs a full emergency kit for a weekend getaway, to the co-worker who refuses to eat the last piece of cake because "the risk of it being too sweet is too high," we all make decisions based on risk, just like actuaries!

Whether we're choosing an umbrella, planning the safest route for a road trip, or weighing the risks of eating that questionable leftover, we're all applying actuarial thinking to our daily choices without even realizing it.

Pooling Risk

In insurance and risk management, "risk pooling" is all about bringing together risks from various sources to form a larger, more predictable pool. This makes managing risk more efficient and helps keep insurance costs affordable.

REAL LIFE EXAMPLE

- A family with healthy members contributes to an insurance pool, and when someone in that family gets sick, their medical expenses are covered by the premiums paid by all the pool's participants.
- A group of drivers with varying levels of risk (e.g., some may have clean driving records, others may have accidents) contributes to the same insurance pool. Those who don't need to file a claim essentially "help" cover the costs of others who do.

IAQS INSTITUTE OF ACTUARIAL & QUANTITATIVE STUDIES

The Birth of Insurance

Insurance originated at Edward Lloyd’s Coffee House in late 17th-century London.
Merchants and shipowners met there to share news and pool risks of sea voyages.
This gave rise to marine insurance contracts and the idea of underwriting.
Lloyd’s evolved into a formal insurance marketplace, setting global standards.
Expansion later included aviation, energy, cyber, and climate-related risks.
Today, Lloyd’s blends historic practices with technology, data analytics, and sustainability.

INSURANCE PLANS

Whole life insurance
Zindagi ke saath bhi, zindagi ke baad bhi – aur premium ke saath hamesha!

Term Insurance
Zindagi gone? Policy on!

Endowment Assurance
Zindagi chale ya ruk jaaye, paisa zaroor aayega.

Whole Life Insurance

- Whole life insurance provides lifetime coverage as long as premiums are paid.
- It guarantees a death benefit to beneficiaries, regardless of when the insured passes away.
- Includes a cash value component that grows over time and can be borrowed against.
- Premiums are usually fixed and remain the same throughout the life of the policy.
- Commonly used for long-term financial planning and estate protection.

Term Insurance

- Term insurance is a life insurance policy for a fixed period (e.g., 10, 20, or 30 years).
- It provides a death benefit to the nominee if the policyholder dies during the term.
- There is no payout if the policyholder survives the term (unless return of premium is chosen).
- It is a pure protection plan with no investment or savings component.
- Offers high coverage at low premiums, making it very cost-effective.

Endowment Assurance

- Life assurance guarantees a payout either on death during the term or at policy maturity—whichever comes first.
- The term "assurance" implies a guaranteed outcome, unlike insurance which covers only risk.
- It combines protection and savings, similar to endowment plans.
- Commonly used in the UK and Commonwealth countries.
- Suitable for those seeking both life cover and a maturity benefit as part of long-term planning.

INSTITUTE OF ACTUARIAL & QUANTITATIVE STUDIES

1. A big exam is coming. You...
A. Start preparing from day one – slow and steady wins the race.
B. Plan to start early, but somehow it all happens the night before.
C. Focus on the most important topics – cover what really matters.

2. You find a Rs. 1000 note on the ground. You...
A. Keep it safely for emergency snacks and notes.
B. Spend half, save half – balance is key.
C. Use it to pay for something essential – needs first, always.

3. How do you handle group projects?
A. Take lead, assign tasks, make sure it's done well.
B. You contribute, but only once someone sets it in motion.
C .Step in when it counts most – protect the deadline and the grade.

4. What's your approach to money?
A. Save now, spend later – future you will thank you.
B. Mix of spending and saving – depends on the mood.
C. Secure the basics first – rest can wait.

5. If life were an insurance policy, what would you pick?
A. Whole Life – for that lifetime safety net!
B. Endowment Insurance – grow it, save it, cash it.
C. Term Plan – pure protection, no distractions.

6. Your ideal weekend plan is...
A. Reading, Netflix, and a cozy blanket.
B. A mix of catching up with friends and finishing pending work.
C. Knock off essentials, then chill guilt-free – smart and sorted.

7. How do you feel about long-term commitments?
A. Love them – stability is comforting.
B. Depends on the situation.
C. I'm good with focused plans – protect today, review tomorrow.

8. Based on your hometown or background, your family's attitude toward savings is...
A. Save first, spend later.
B. Spend wisely, save smartly.
C. Cover the risks first – that's real responsibility.

9. What's your reaction when someone talks about insurance?
A. I already have a plan – let's compare notes!
B. I'm interested... if it makes sense.
C. Term insurance? That's the real deal – pure cover, smart move.

10. You're offered two internship options. You choose...
A. A stable, long-term company with growth potential.
B. A mid-term, well-paying gig with a defined exit.
C. One that covers your bases – solid, short, and secure.

IAQS INSTITUTE OF ACTUARIAL & QUANTITATIVE STUDIES

What’s Your Insurance Personality?

🛡️ Mostly A’s – Whole Life Warrior
You’re the dependable one — always planning, always ready. You’re in it for the long run. A true whole life insurance personality: long-term commitment, reliable, and a touch serious.

🎯 Mostly B’s – Endowment Explorer
Balanced and practical, you know how to play smart. You want benefits whether you win or lose — just like endowment insurance. You live with purpose and a pinch of fun.

🎁 Mostly C’s – TermAdventurer
You're here to get things covered, no drama. Practical, purposeful, and clear-cut — you're the term insurance of the group: you focus on what matters, protect what’s important, and don’t believe in paying extra for fluff.

IAQS | INSTITUTE OF ACTUARIAL & QUANTITATIVE STUDIES

Thank You