

## CSE471: Assignment 1

1. Calculate the **Break-Even Point**, **Return on investment** using the following information. **[2.5+2.5 = 5 Marks]**

	Year 0	Year 1	Year 2	Year 3
<b>Total benefits</b>	40,000	45,000	40,000	60,000
<b>Total costs</b>	82,000	32,000	20,000	27,000

2. Calculate the **Break-Even Point** and **Return on investment** using the following information. **[5+5 = 10 Marks]**

Benefits	Year 1	Year 2	Year 3	Year 4	Year 5
Increased Sales		1001000	1010000	1100000	1700000
Reduction in cost of raw materials		505000	520000	530000	550000
Intro to new product line		303000	304000	305000	306000

Development Costs	Year 1	Year 2	Year 3	Year 4	Year 5
4 Servers	500,000				
Equipments	250,000				
Software License	10,000				



**BRAC University**  
Department of Computer Science and Engineering (CSE)

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Operational Costs	Year 1	Year 2	Year 3	Year 4	Year 5
Office Rent	50,000	50,000	50,000	50,000	50,000
Hardware	20,000	20,000	20,000	20,000	20,000
AWS Subscription	10,000	10,000	10,000	10,000	10,000

3. Calculate the **Net Present Value** from the previous information if the average inflation rate is 7.2% **[5 Marks]**

**Submission Guidelines:**

- You need to submit a PDF file of your handwritten solution via this [Google Form](#)
- You need to show the detailed workings of the math
- Your submission pdf must have a cover page with your Name and Student ID on it
- Renaming Format: StudentID\_Assignment1.pdf
- **Deadline: 18th November, 11.59PM**