**Advanced Python**

**5 BCA B**

**"Practical - Lab 2"**

***BY***

**"Tharan" (23215134)**

**SUBMITTED TO**

**prateek singhal**

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## **QUESTION 1**

**Demonstrate the usage of basic regular expressions**

### **Code Solution**

import re  
  
text = "The quick brown fox jumps over the lazy dog. The FOX is quick! Email: test@example.com"  
  
pattern1 = r"fox"  
pattern2 = r"[A-Z]+"  
pattern3 = r"\b\w+@\w+\.\w+\b"  
pattern4 = r"\b\w{5}\b"  
pattern5 = r"[^a-zA-Z\s]"  
  
match1 = re.search(pattern1, text, re.IGNORECASE)  
match2 = re.findall(pattern2, text)  
match3 = re.search(pattern3, text)  
match4 = re.findall(pattern4, text)  
match5 = re.findall(pattern5, text)  
  
print(f"Found 'fox' at position: {match1.start()}")  
print(f"All uppercase words: {match2}")  
print(f"Email found: {match3.group()}")  
print(f"Five letter words: {match4}")  
print(f"Non-alphanumeric characters: {match5}")  
  
replaced\_text = re.sub(r"quick", "slow", text)  
print(f"Replaced text: {replaced\_text}")

### **FINAL Output**

