Name → Ankush Negi
University Roll no. → 1121019
Course → BCA 6'A'

Ans 5.)

```
def encryption ( plain_text, key):
    encrypted = " "
    for c in plain_text:
        if c.isupper():
            c_index = ord(c) - ord ('A')
            c_shifted = (c_index + key) % 26 + ord ('A')
            c_new = chr ( c_shifted )
            encrypted += c_new
        elif c.islower():
            c_index = ord(c) - ord ('o')
            c_shifted = (c_index + key) % 26 + ord ('o
            c_new = chr ( c_shifted )
            encrypted += c_new
        elif c.is digit():
            c_new = (int(c) + key) % 10
            encrypted += str (c_new)
        else:
            encrypted += c
    return encrypt
```

```python
def decryption ( ciphertext, key):
    decrypted = " "
    for c in ciphertext :
        if c.isupper():
            c_index = ord(c) - ord('A')
            c_og_pos = (c_index - key) % 26 + ord('A')
            c_og = chr (c_og_pos)
            decrypted += c_og
        elif c.islower() :
            c_index = ord(c) - ord('a')
            c_og_pos = (c_index - key) % 26 + ord('a')
            c_og = chr (c_og_pos)
            decrypted += c_og
        elif c.isdigit():
            c_og = (int(c) - key) % 10
            decrypted += str(c_og)

        else :
            decrypted += c
    return decrypted

plain_text = " Attack from North"
ciphertext = encryption (plain_text, 4)
print (" Plain text message: \n", plain_text )
print (" Encrypted cipher text: \n", ciphertext )
decrypted msg = decryption (ciphertext, 4)
print (" The decrypted message is: \n", decryptedmsg)
```