**Practical No. 07**

**Name: Amarsingh Kashyap**

**Roll No: 101**

**Branch: CSE (2nd Shift)**

**Aim:**

**A) Read the Research paper provided to understand the use of SDTS in language translation from English to Hindi.**

**(B) Write a program to implement tokenizer , syntax analyzer, and to perform syntax directed translation for conversion from English to Hindi as per the research paper. Also extend the procedure to generate correct Hindi sentence.**

**CODE :**

hinglish ={

"What" : "क्या",

"Where" : "कहां",

"are" : "हैं",

"is" : "है",

"you" : "तुम",

"he" : "वह",

"I" : "मैं",

"going" : "जा रहे",

"am" : "हूँ",

}

pronoun=["you","I","he"]

que=["What","Where"]

verb=["is","are","am"]

object=["going"]

def reader():

sentence=input("Enter the sentence to be translated: ")

tokens=sentence.split()

return tokens

def translate(s):

tr=[]

strr=[]

vtr=[]

otr=[]

for i in s:

if(i in hinglish):

if(i in pronoun or i in que):

strr.append(hinglish[i])

elif(i in verb):

vtr.append(hinglish[i])

else:

otr.append(hinglish[i])

for i in strr:

tr.append(i)

for i in otr:

tr.append(i)

for i in vtr:

tr.append(i)

return tr

# Main

sent=reader()

trd=translate(sent)

print("Translated sentence :-")

for i in trd:

print(i,end=" ")

**OUTPUT:**

