

Name : SUNDEEP A
SRN : PES1UG20CS445
ROLL NO : 48
SECTION : H

Problem Statement:

to validate GST (Goods and Services Tax) number using Regular Expression

Code:

```
import re
def isValidMasterCardNo(str):
    regex = "^([0-9]{2}[A-Z]{5}[0-9]{4}) + ([A-Z]{1}[1-9A-Z]{1}) + "Z[0-9A-Z]{1}$"
    p = re.compile(regex)
    if (str == None):
        return False
    if(re.search(p, str)):
        return True
    else:
        return False

string = input("Enter the String: ")
if(isValidMasterCardNo(string)):
    print("It is a valid GST Number ")
else:
    print("It is an invalid GST Number ")
```

Output:

Valid Strings:

```
"c:/Users/HP/Desktop/PESU/SEM-3/AFLL/unit 2/regex.py"
Enter the String: 29AAICA3918J1ZE
It is a valid GST Number
```

```
"c:/Users/HP/Desktop/PESU/SEM-3/AFLL/unit 2/regex.py"
Enter the String: 06FCAHM6385P6Z2
It is a valid GST Number
```

Invalid Strings:

```
"c:/Users/HP/Desktop/PESU/SEM-3/AFLL/unit 2/regex.py"
Enter the String: 06BZAHM6385P6F2
It is an invalid GST Number
```

//the 14th character should be Z, thus it is an invalid string

```
"c:/Users/HP/Desktop/PESU/SEM-3/AFL/Unit 2/regex.py"
```

```
Enter the String: AZBZAHM6385P6Z2
```

```
It is an invalid GST Number
```

//it starts with Alphabets thus it is an invalid string