

## **Perl Script to Implement all the Pattern Matching Regular expressions**

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**GitHub Link : <https://github.com/NeerajK01/Perl-Project.git>**

### **Project Code:**

```
#!/usr/bin/perl -w

use strict;

my $i = 0;

while($i<=10){

my $Input = <STDIN>;

if($Input =~ m/[a-zA-Z]+[0-9]+[@][gmail.com]/){

print ("User Enter Email-Id $Input");

}

elsif($Input =~ m/[w]{3}[.][a-zA-Z0-9]+[.][com]/){

print ("User Entered URL is $Input");

}

elsif($Input =~ m/boy|BOY/){

print ("User is Male");

}

elsif($Input =~ m/GIRL|girl/){
```

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```
print ("User is Female");

}

elseif($Input !~ m/[a-zA-Z0-9]/){

print ("Please enter String and number value ");

}

elseif($Input =~ m/[a-zA-Z0-9]+[*|%][a-zA-Z0-9]/){

print ("User Enter Expression $Input");

}

elseif($Input =~ m/[+91][0-9]{10}/){

print ("User Entered Mobile Number $Input");

}

elseif($Input < 0){

print ("Negative number");

}

elseif($Input =~ m/[a-zA-Z]+)/){

print ("User Entered String $Input");

}

elseif($Input =~ m/[0-9]+)/){

print ("User Entered Number $Input");

}

else{

print ("Wrong");

}

$i++;
```

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}

### **Significance of project:**

Pattern matching is the technique of searching a string containing text or binary data for some set of characters based on a specific search pattern. When you search for a string of characters in a file using the Find command in your word processor, or when you use a search engine to look for something on the Web, you're using a simple version of pattern matching: your criteria is "find these characters." In those environments, you can often customize your criteria in particular ways, for example, to search for this or that, to search for this or that but not the other thing, to search for whole words only, or to search only for those words that are 12 points and underlined. Pattern matching in Perl, however, can be even more complicated than that. Using Perl, you can define an incredibly specific set of search criteria, and do it in an incredibly small amount of space using a pattern-definition mini-language called *regular expressions*.

### **Approach Used in Project**

In this we used Perl Language for create this pattern matching program. We use Regular Expression(Regex) for Pattern Matching. In this we use Search Pattern Symbol for all pattern matching [m/ /]. First we start while loop and this while loop i give to user option for giving input and that input matching by regex expression [=~ or !~]. we used character, character classes and quantifier for done all pattern matching. We did this with many different approach in like php and java but according to me its one of simplest way we did in perl.

**Is there any innovative method you have used toward the project?**

No

**Have you used GitHub repository to maintain different revisions of the Project?**

Yes

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