**Student Name: sharanjit kour  
Student ID : 11501525  
Email Address: sharan.khalsa189@gmail.com  
project: write a perl script to implement all the pattern matching regular expressions.**

**Code:**

**#!user/bin/perl**

**#!user/bin/perl**

**$strng=<STDIN>;**

**if($strng=~/^[a-zA-z]+[0-9]+\@[a-z]+\.[a-z]/)**

**{**

**print ("$strng");**

**print ("yes!it is email id \n");**

**}**

**elsif($strng=~/[a-zA-z]+\.[a-zA-z]+\.[a-zA-z]/)**

**{**

**print ("$strng");**

**print ("yes!it is perfect pattern for url \n");**

**}**

**elsif($strng=~/^[if|else|while|for|foreach|elsif|switch|int|char|float|double|long]+\*$/)**

**{**

**print ("$strng");**

**print("this pattern contains keywords only \n");**

**}**

**elsif($strng=~/^[a-zA-z]+/)**

**{**

**print ("$strng");**

**print("this pattern contains alphabets only \n");**

**}**

**elsif($strng=~/^[0-9]+/)**

**{**

**print ("$strng");**

**print("this pattern contains numbers only \n");**

**}**

**elsif($strng=~/^[aeyiuo]+$/)**

**{**

**print ("$strng");**

**print("this is a vowel or a word starting with a vowel \n");**

**}**

**elsif($strng=~/^[#include<(stdio.h|conio.h|maths.h|stdlib.h)>]/)**

**{**

**print ("$strng");**

**print("this pattern contains header files only \n");**

**}**

**elsif($strng=~/^[!|@|#|$|%|&|\*]+/)maths.h|stdlib.h)>]/)**

**{**

**print ("$strng");**

**print("this pattern contains header files only \n");**

**}**

**elsif($strng=~/^[!|@|#|$|%|&|\*]+/)**

**{**

**print ("$strng");**

**print("this pattern contains special symbols only \n");**

**}**

**elsif($strng=~/^[(a-zA-z0-9)!|@|#|$|%|&|\*]+/)**

**{**

**print ("$strng");**

**print("this pattern contains alphabets,numerals & special symbols only \n");**

**}**

**else**

**{**

**print ("not valid data");**

**}**