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# CS100: Introduction to Computer Science

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Lecture 20: Perl (VI) – more practice

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# Simple Perl Commands:

- **print**

- print “my name is \$name \n”;

- **<STDIN>**

- \$name = <STDIN>;

- **for**

- **For (\$i = 0; \$i<10; \$i++)**

- {

- .....

- }

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# Simple Perl Commands:

## ■ If, else

- `if ()`
  - `{`
  - `..`
  - `}else`
  - `{`
  - `...`
  - `}`
-

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# Simple Perl Commands:

- sub

```
sub subname {  
    statement1;  
    statement2;  
}
```

- return

```
sub subname {  
    statement1;  
    statement2;  
    return $max;  
}
```

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Exercise 1: Write a program that adds numbers from 1 to 50 and output the result.

```
#!/c:/Perl/bin/perl  
  
$result =0;  
for ($i = 1; $i<=50; $i++)  
{  
    $result = $result + $i;  
}  
  
print "the result is $result \n";
```

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Exercise 2: Write a program that adds all the even numbers between 1 and 50, and then output the result.

```
#!/c:/Perl/bin/perl

$result =0;
for ($i = 1; $i<=50; $i++)
{
    if ($i %2 == 0){
        $result = $result + $i;
    }
}

print "the result is $result \n";
```

**Exercise 3:** Read the following code and use a subroutine to replace a code block that is used multiple times.

```
#!/c:/Perl/bin/perl
$a = 5;
$result = 0;
for ($i = 1; $i <= $a; $i++)
{
    $result = $result + $i;
}
print "the result is $result \n";

$a = 6;
$result = 0;
for ($i = 1; $i <= $a; $i++)
{
    $result = $result + $i;
}
print "the result is $result \n";
```

# Exercise 3: Read the following code and use a subroutine to replace a code block that is used multiple times.

```
#!/c:/Perl/bin/perl
$a = 5;
$result = 0;
for ($i = 1; $i <= $a; $i++)
{
    $result = $result + $i;
}
print "the result is $result \n";

$a = 6;
$result = 0;
for ($i = 1; $i <= $a; $i++)
{
    $result = $result + $i;
}
print "the result is $result \n";
```

```
#!/c:/Perl/bin/perl
$a = 5;
&sumNumbers($a);

$a = 6;
&sumNumbers($a);

sub sumNumbers
{
    $result = 0;
    for ($i = 1; $i <= $a; $i++)
    {
        $result = $result + $i;
    }
    print "the result is $result \n";
}
```

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# Announcements:

- Lab 5 this week.

