

Name: Kerolos Youssef Ghobrial

LAB 1: Perl

1-

```
# number 1
print "Hello World!\n";
```

Hello World!

2-

```
# number 2
foreach my $arg (@ARGV) {
    print "Argument: $arg\n";
}
print "Argument: @ARGV \n";
```

3-

```
# number 3
$rad = 12.5;
$circle_cir = 2 * 3.14 * $rad;
print "Circle Circumference = ",$circle_cir,"\n";
```

Circle Circumference = 78.5

```
# number 4
print ("Enter the radius of Circle: \n");
$rad= <STDIN>;
$Circumference = 2 * 3.14 * $rad;
print "Circle Circumference = ", $Circumference, "\n";
```

```
Enter the radius of Circle:
5
Circle Circumference = 31.4
```

```
# number 5
print ("Enter the First Number: \n");
my $num1 = <STDIN>;
print ("Enter the second Number: \n");
my $num2 = <STDIN>;
my $sum = $num1 * $num2;
print "sum of numbers = ", $sum, "\n";
```

```
Enter the First Number:

5
Enter the second Number:

6
sum of numbers = 30
```

```
# number 6
print "Write a string \n";
$a = <STDIN>;
chomp $a;
print "Write a number \n";
$b = <STDIN>;
chomp $b;
for ($i = 1; $i <= $b; $i++) {
  print "$a \n";
}</pre>
```

```
Write a string
kero
Write a number
5
kero
kero
kero
kero
kero
kero
```

```
# number 7
print "Write a list \n";
@c = <STDIN>;
@C = reverse(@c);
print "reversed list is: @C \n";
```

```
Write a list
kero
iti
linux
perl
reversed list is: perl
linux
iti
kero
```

```
# number 8
print "Write a list \n";
@c = <STDIN>;
print "Write a number \n";
$b = <STDIN>;
$a = $c[$b];
print "string at number $b is $a \n";
```

```
Write a list
kero
iti
linux
perl
Write a number
1
string at number 1
is iti
```

```
# number 9
print "Write a list \n";
@c = <STDIN>;
print "random string is:\n $c[rand @c]";
```

```
Write a list
kero
iti
linux
perl
random string is:
perl
```

```
print "what is the temperature outside? \n";
$temp = <STDIN>;

if ($temp > 35) {
    print "too hot \n";
}
else {
    print "too cold \n";
}
```

```
what is the temperature outside?
43
too hot
```

```
print "what is the temperature outside? \n";
$temp = <STDIN>;

if ($temp >= 35) {
    print "too hot \n";
}
elsif ($temp <= 28) {
    print "too cold \n";
}
else {
    print "just right! \n"; #if temp > 28 & temp < 35
}</pre>
```

```
what is the temperature outside?
35
too hot
```

```
$total = 0;
while (1) {
print "Enter a number (or 999 to finish): ";
$input = <STDIN>;

last if $input == 999; # Exit the loop when 999 is entered

$total += $input; # Add the number to the total
}

print "Total of all numbers (excluding 999) = " ,$total,"\n";
```

```
Enter a number (or 999 to finish): 99
Enter a number (or 999 to finish): 135
Enter a number (or 999 to finish): 999
Total of all numbers (excluding 999) = 234
```

```
# number 13
@string_list;
print "Enter strings (one per line, press Enter to finish):\n";

# Read strings and store them in an array
while ($input_string = <STDIN>) {
  last if $input_string eq " ";
  push @string_list, $input_string;
  }

# Print the strings in reverse order
print "Reversed list of strings:\n";
  for ($i = $#string_list; $i >= 0; $i--)
    {
        print "$string_list[$i]\n";
    }
}
```

```
Enter strings (one per line, press Enter to finish):
kero
iti
linux
perl
Reversed list of strings:

perl
linux
iti
kero
```

```
# number 14
for ($a = 0; $a <= 32;$a++)
{
    $b = $a**2;
    printf "%5g %8g \n",$a,$b;
}</pre>
```

```
1
            4
 3
 4
           16
 5
           25
 6
           36
 7
           49
 8
           64
 9
           81
10
          100
11
          121
12
          144
13
          169
          196
14
15
          225
16
          256
17
          289
18
          324
          361
19
20
          400
21
          441
22
          484
23
          529
24
          576
25
          625
26
          676
27
          729
28
          784
29
          841
30
          900
          961
31
32
        1024
```

```
# number 15
%map= (
    "red" => "apple" ,
    "green" => "leaves" ,
    "blue" => "ocean"
    );
print "Enter a string: ";
$str = <STDIN>; #read input from user
chomp ($str);
print "The value for $str is $map{$str}\n";
```

```
Enter a string: green
The value for green is leaves
```

```
# number 16

$c = "i am kerolos and i am a fresh graduate";
@a = split / /, $c;
foreach $a(@a)
{
        $count{$a}++;
}
foreach $a(sort keys %count)
{
        print $a, " ", $count{$a},"\n";
}
@b = sort (@a);
print "sorted words:\n @b";
```

```
a 1
am 2
and 1
fresh 1
graduate 1
i 2
kerolos 1
sorted words:
a am am and fresh graduate i i kerolos
```

```
# number 17
  opendir($dir, ".") or die "Cannot open directory: $!";

# Read and print the directory contents
  while ($entry = readdir($dir)) {
     next if ($entry eq "." || $entry eq ".."); # Skip '.' and '..' entries
     print "$entry\n";|
}

closedir($dir);
```

```
# number 18
$c = kero_youssef; #correct username
$d = kj1567813556; #correct password
print "your username is: ";
$a = <STDIN>;
print "your password is: ";
$b = <STDIN>;
if ($a == $c && $b == $d)
{
    print "Welcome,kero!"
}
else
{
    print "your username or password may not be correct, try again";
}
```

```
your username is: kero_youssef
your password is : kjl567813556
Welcome,kero!
```

19-

```
# number 19
use strict;
use warnings;
use POSIX qw(strftime);

my ($sec, $min, $hour, $mday, $mon, $year, $wday) = localtime();

# Adjust the month and year values
$mon++;  # Add 1 to the month since it's 0-based (0 = January, 1 = February, and so on)
$year += 1900;  # Add 1900 to the year to get the current year

# Get the day of the week
my $day_name = strftime("%a", localtime());  # (%A displays Sunday) , (%a displays Sun)

# Array of month names
my @month_names = qw(Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec);

# Get the month name
my $month_name = $month_names[$mon - 1];

# Print the current date and time
print "Current date and time: $day_name $month_name $mday $hour:$min:$sec $year\n";
```

Current date and time: Sun Nov 5 20:50:1 2023