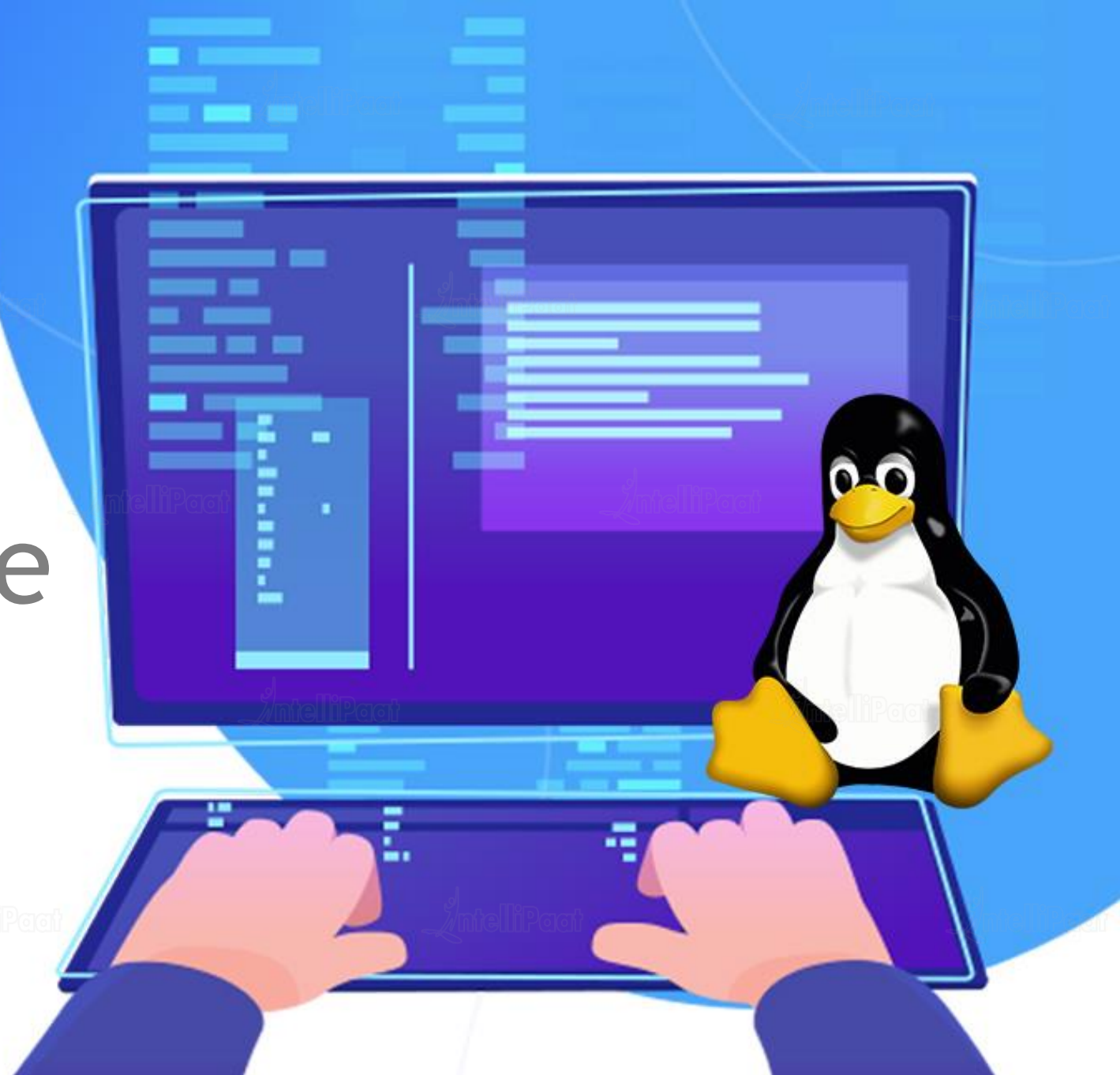




UNIX/Linux Course

Conditional and Looping
statements



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Agenda

01 What is a Function in Unix?

02 Creating a function

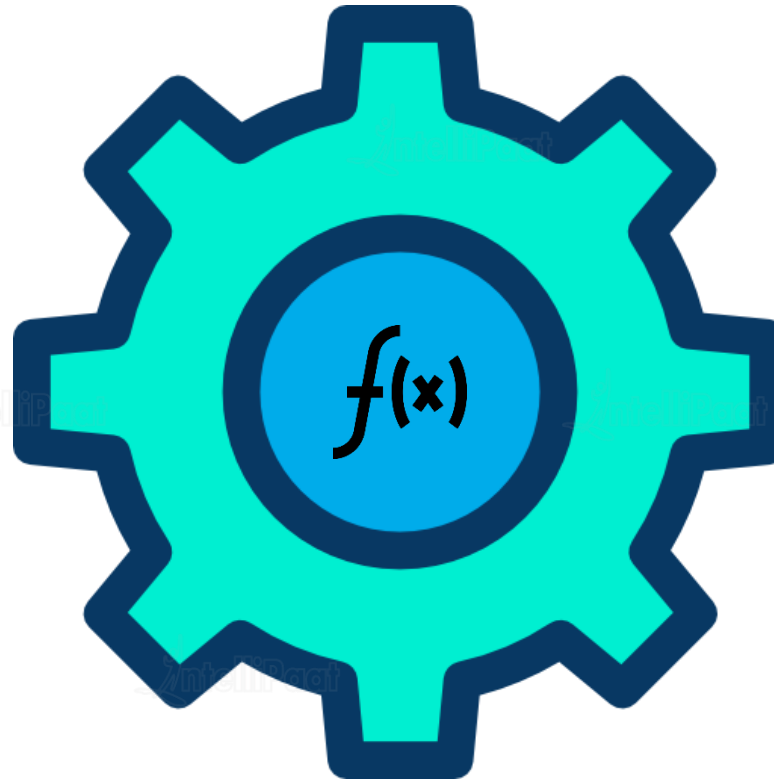
03 Calling a function in a file

04 Calling a function in another file

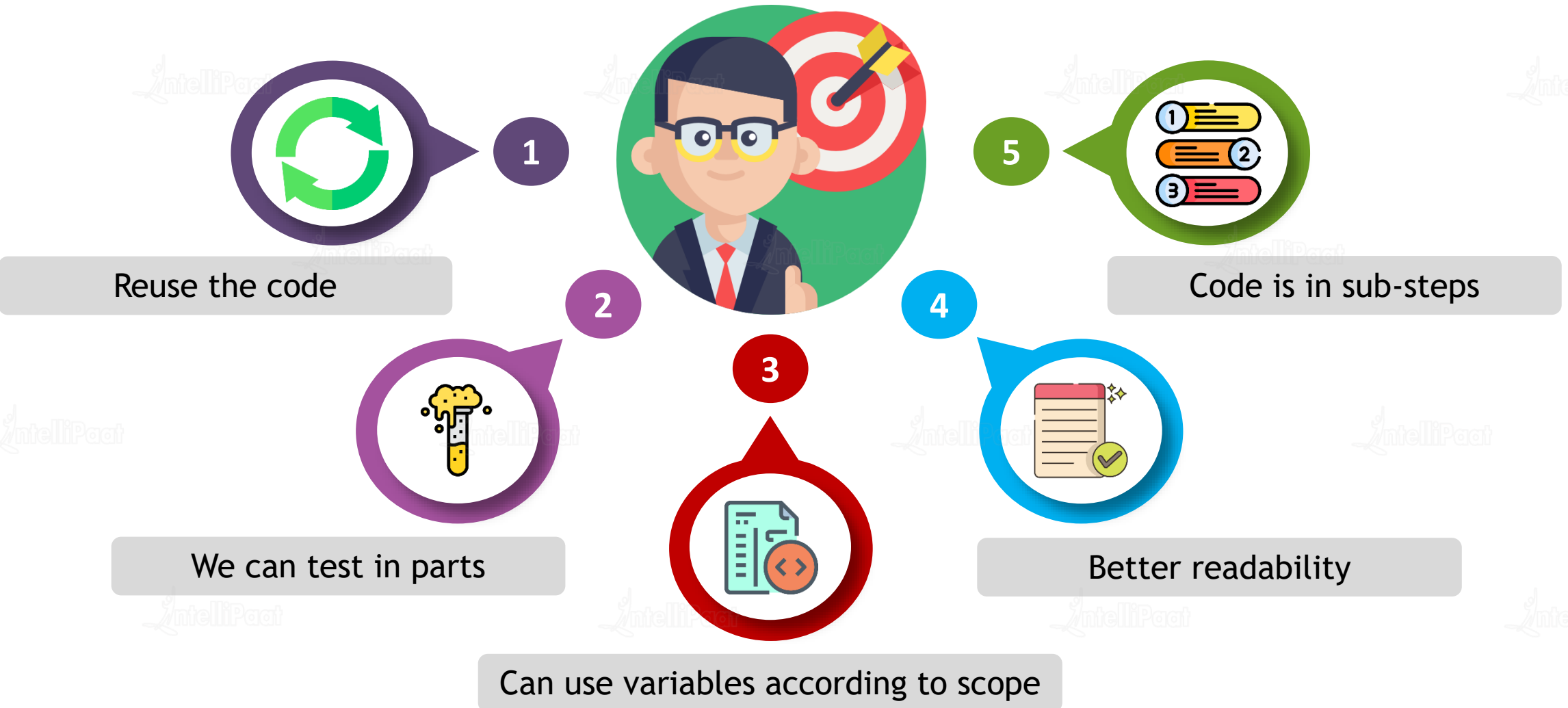
What is a Function in Unix?

What is a Function in Linux?

A function is set of commands under a function name which is executed when the name is called



Benefits of a function





Creating a function

Creating a function



Use the **function** keyword to create a function in Unix

```
function funcname { commands ; }
```

```
[kodee@localhost ~]$ function say_hello_world { echo "HELLO WORLD"; }  
[kodee@localhost ~]$ say_hello_world  
HELLO WORLD
```

Creating a function



Other ways to create a function

Provide the statements separately

```
[kodee@localhost ~]$ function say_hello_world
> {
> echo "Hello World"
> }
[kodee@localhost ~]$ say_hello_world
Hello World
```

Just type the name with "()"

```
[kodee@localhost ~]$ say_hello_world()
> {
> echo "Hello, World!"
> }
[kodee@localhost ~]$ say_hello_world
Hello, World!
```


Creating a function

Function with parameters

```
[kodee@localhost ~]$ function multiply
> {
> a=$1
> b=$2
> multiply=$(( a*b ))
> echo $multiply
> }
[kodee@localhost ~]$ multiply
0
[kodee@localhost ~]$ multiply 2 1
2
[kodee@localhost ~]$ multiply 2 52
104
```

Calling a function in a file

Calling a function in a file



```
add()  
{  
echo "enter 2 numbers"  
read a  
read b  
sum=$(( a+b ))  
echo $sum  
}  
sub()  
{  
echo "enter 2 numbers"  
read a  
read b  
dif=$(( a-b ))  
echo $dif  
}  
if [ $1 == "add" ]  
then  
add  
else  
sub  
fi
```

Output

```
[kodee@localhost ~]$ bash addsub.sh add  
enter 2 numbers  
2  
5  
7  
[kodee@localhost ~]$ bash addsub.sh sub  
enter 2 numbers  
25  
7  
18
```

Calling a function from another file

Calling a function from another file

If a condition provided is true, it will enter the statements after **then**. If false, then statements inside **else** will be executed

addsub-func.sh file

```
source ./addsub.sh
if [ $1 == add ]
then
add
else
sub
fi
```

Output

```
[kodee@localhost ~]$ bash addsub-func.sh add
enter 2 numbers
321
2
323
[kodee@localhost ~]$ bash addsub-func.sh sub
enter 2 numbers
98
24
74
```



Quiz

1. What is NOT a benefit of functions?

A. Reuse the code

B. Improves code's readability

C. Makes the code complex

D. Code is in sub-steps



1. What is NOT a benefit of functions?

A. Reuse the code

B. Improves code's readability

C. Makes the code complex

D. Code is in sub-steps



2. Which is the right way of making variable “a” ask for the first parameter which is entered with the function?

A. `a==$1`

B. `a=$1`

C. `a=#1`

D. `a==#1`



2. Which is the right way of making variable “a” ask for the first parameter which is entered with the function?

A. a==\$1

B. a=\$1

C. a=#1

D. a==#1



3. How to call a function in one file from another file?

A. First use the source command to add the file and then enter the function names

B. Directly enter the function names

C. Enter function names with brackets “()”

D. First use the source command to add the file and then use function names with brackets “()”



3. How to call a function in one file from another file?

A. First use the source command to add the file and then enter the function names

B. Directly enter the function names

C. Enter function names with brackets “()”

D. First use the source command to add the file and then use function names with brackets “()”





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