

Unit 10 - Week 8

Course outline

How does an NPTEL online course work?

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Week 8

● Introduction to The JACK Programming Language

○ Project 09: Basic Steps

○ Understanding Syntax of JACK using Examples

● Project 09: More Examples

○ The JACK Syntax - Language Specification

○ Application Development using JACK

○ Quiz : Assignment 8

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Assignment 8

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-03-25, 23:59 IST.

1) Identify the odd one out among the given choices.

1 point

- Output.println
- Math.abs
- Keyboard.readInt
- Output.println

No, the answer is incorrect.
Score: 0

Accepted Answers:
Math.abs

2) Which of the following is(are) NOT a keyword in JACK programming language?

1 point

- this
- that
- function
- pointer
- true

No, the answer is incorrect.
Score: 0

Accepted Answers:
that
pointer

3) Which of the following statements is(are) INCORRECT according to JACK syntax?

1 point

- let x = 2;
- do x = 2;
- do Output.println();
- this.myfunc();

No, the answer is incorrect.
Score: 0

Accepted Answers:
do x = 2;
this.myfunc();

4) Identify the output of the following program snippet. (Hint: Go through the JACK standard library in the book)

1 point

```
var String s;
var char c;
let s = "freeWiFi";
var int i;
let i = 1;
while(i<4)
{
    do s.setCharAt(i, s.getChar(i-1));
    let i = i+1;
}
```

- ffrWiFi
- ffffWiFi
- freeWiFi
- frreWiFi

No, the answer is incorrect.
Score: 0

Accepted Answers:
ffffWiFi

5) A statement with a function call in JACK can start with which of the following keywords?

1 point

- var
- let
- field
- do

No, the answer is incorrect.
Score: 0

Accepted Answers:
let
do

6) How many objects of class Bar are created in the following code snippet?

```
var Bar a, b, c;
a = new Bar();
b = a;
c = new Bar();
b = c;
```

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Numeric) 2

1 point

7) How many times will the foo function be called in the following code snippet?
(Hint: You can code the same and get answer).

```
function int fib(int num)
{
    if(num = 0 | num = 1)
    return num;
    var int val1, val2;
    let val1 = fib(num-2);
    let val2 = fib(num-1);
    let val1 = val1 + val2;
    return val1;
}
...
//-----
var out;
let out = fib(4);
//-----
```

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Numeric) 9

1 point

8) Which of the following functions in JACK standard library can be used to directly modify the contents of RAM using the address?

1 point

- Memory.peek
- Sys.halt
- Memory.poke
- Screen.drawCircle

No, the answer is incorrect.
Score: 0

Accepted Answers:
Memory.poke

9) Which of the following statement(s) is(are) TRUE?

1 point

- The main function Main.main() is called by Sys.init()
- Screen.drawCircle can be used to modify the contents of any location in RAM.
- When the return statement in Main.main() is executed, the program halts abruptly.
- When the return statement in Main.main() is executed, the program returns to JACK OS.

No, the answer is incorrect.
Score: 0

Accepted Answers:
The main function Main.main() is called by Sys.init()
When the return statement in Main.main() is executed, the program returns to JACK OS.

10) The variables declared using field and var are, respectively,

1 point

- local variable inside subroutine, subroutine parameter
- subroutine parameter, static member of class
- member of class, subroutine parameter
- member of class, local variable inside subroutine

No, the answer is incorrect.
Score: 0

Accepted Answers:
member of class, local variable inside subroutine