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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Programming in Java (course)

Announcements (announcements)   **About the Course (https://swayam.gov.in/nd1_noc20_cs08/preview)**

Ask a Question (forum)   Progress (student/home)   Mentor (student/mentor)

Unit 2 - Week 0 :

Course outline

How does an NPTEL online course work?

Week 0 :

● **Quiz : Assignment 0 (assessment? name=75)**

Week 1 :

Week 2 :

Week 3 :

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Assignment Solution

Assignment 0

The due date for submitting this assignment has passed.   **Due on 2020-01-27, 23:59 IST.**

Assignment submitted on 2020-01-13, 20:56 IST

1)   *1 point*

A one dimensional array A has indices 0....54.Each element is a string and takes up four memory words. The array is stored starting at location 1000 in decimal form. The starting address of 41th element of A is

a. 1000
b. 1160
c. 1040
d. 1055

☐ a.
☑ b.
☐ c.
☐ d.

Yes, the answer is correct.
Score: 1
Accepted Answers:
b.

2) **What is the output of the following program in C?**   *1 point*

```c
#include <stdio.h>
int main()
{
    enum Nptel { July = 0, Aug, Dec};
    enum Nptel course = Dec;
    if( course == 0)
            printf("Course is in July");
    else if(course == 1)
        printf("Course is in Aug");
    if(course == 2)
        printf("Course is in Dec");
}
```

    a.   Course is in July
    b.   Course is in Aug
    c.   Course is in Dec
    d.   Compilation error

☐ a.

☐ b.

☑ c.

☐ d.

Yes, the answer is correct.
Score: 1
Accepted Answers:
c.

3) Consider the statement   *1 point*

int X[2] [4] = { 1, 2, 3, 4, 5, 6, 7, 8} ;

5 will be the value of

    a.   X[0][1]
    b.   X[0][5]
    c.   X[1][5]
    d.   X[1][0]

☐ a.

☐ b.

☐ c.

☑ d.

Yes, the answer is correct.
Score: 1
Accepted Answers:
d.

4) **What does the following declaration mean?**   *1 point*

   `int (*ptr)[15];`

      a. ptr is array of pointers to 15 integers.

      b. ptr is a pointer to an array of 15 integers.

      c. ptr is an array of 15 integers.

      d. ptr is a pointer to a two-dimensional array.

☐ a.

☑ b.

☐ c.

☐ d.

Yes, the answer is correct.
Score: 1

Accepted Answers:
b.

5)   *1 point*

In C, if you pass the name of an array as an argument to a function, what actually gets passed?

      a. Value of elements in array.

      b. First element of the array.

      c. Base address of the array.

      d. Address of the last element of the array.

☐ a.

☐ b.

☑ c.

☐ d.

Yes, the answer is correct.
Score: 1

Accepted Answers:
c.

6)   *1 point*

Which of the following statements(s) is/are not true?

      a. Assembler translates a program in high level programming language into a code in an assembly language.

      b. Compiler translates a program in high level programming language into a code in a machine language.

      c. Interpreter translates a program in high level programming language into a code in a machine language.

      d. A program in C is compiled whereas a program in C++ is interpreted.

☑ a.

☐ b.

☐ c.

☑ d.

Yes, the answer is correct.
Score: 1

Accepted Answers:
a.
d.

7) **Consider the function**   *1 point*

```
myfunc ( int x, int y)
  {
   return (( x < y ) ? 0 : ( x - y ));
  }
```

```
Let a, b be two non-negative integers.
The call myfunc(a, myfunc(a, b)) can find the
```

    a. Maximum of a, b.
    b. Positive difference of a, b.
    c. Sum of a, b.
    d. Minimum of a, b.

- [ ] a.
- [ ] b.
- [ ] c.
- [x] d.

Yes, the answer is correct.
Score: 1
Accepted Answers:
d.

8)   *1 point*

```
What will be the value retuned by the following program, when it is
called with a value 10?
```

```c
#include<stdio.h>
int recur(int);
void main()
{
    int d;
    d=recur(10);
    printf("%d",d);
}
int recur(int num)
{
    if((num/2)!=0)
      return(recur(num/2 ) * 10+num%2 );
    else
       return 1;


}
```

    a. 1010
    b. 1011
    c. 10
    d. 0110

- [x] a.
- [ ] b.

☐ c.

☐ d.

Yes, the answer is correct.
Score: 1

Accepted Answers:
a.

9) Which of the following is not based on object-oriented paradigms?   *1 point*

    a.   C
    b.   C++
    c.   Java
    d.   Python

☑ a.

☐ b.

☐ c.

☐ d.

Yes, the answer is correct.
Score: 1

Accepted Answers:
a.

10) What is the output of the following code segment?   *1 point*

```
int  i = 1;
printf("%d + %d",i++,++i);
```

    a. $1 + 2$
    b. $2 + 3$
    c. $2 + 2$
    d. $1 + 1$

☐ a.

☑ b.

☐ c.

☐ d.

Yes, the answer is correct.
Score: 1

Accepted Answers:
b.

11)   *1 point*

Which of the following operators takes only integer operands in C programming language?

    a.   + (plus)
    b.   *(multiplication).
    c.   /(division).
    d.   %(modulo)

☐ a.

☐ b.

☐ c.

☑ d.

Yes, the answer is correct.
Score: 1
Accepted Answers:
d.

12)   **1 point**

Which of the following statement(s) to declare an array, say 'a' is(are) **not** valid in C programming language?

```
a. int a[m];        //m is an integer variable
b. int *a;
c. int a[ ]={1,2,3,4,5};
d. int a[10000];
```

☑ a.

☑ b.

☐ c.

☐ d.

Yes, the answer is correct.
Score: 1
Accepted Answers:
a.
b.

13. Which of the following is not a valid keyword in C?   **1 point**

```
a.  auto
b.  void
c.  switch
d.  malloc
```

☐ a.

☐ b.

☐ c.

☑ d.

Yes, the answer is correct.
Score: 1
Accepted Answers:
d.

14)   **1 point**

What result the following macro will produce in a statement in C programming language?

```
#include <stdio.h>
#define square(x)    x*x
int main() {
        int  x=36/square(6);
        printf("%d",x);
        return 0;
}
```

```
a.  36
b.  1
c.  0
d.  6
```

☑ a.

☐ b.

☐ c.

☐ d.

Yes, the answer is correct.
Score: 1

Accepted Answers:
a.

15)   **1 point**

Consider the following piece of code in the C programming language.

```
#include<stdio.h>
main()
{
   inc(); inc(); inc();
}
inc()
{
        static int x;
        printf("%d", ++x);
}
```

If you run this program, then which of the following statement(s) is (are) true?

    a. The program will print the value 123
    b. The program will print the value 111.
    c. The program will print the value 012.
    d. The program will print the value 000.

☑ a.

☐ b.

☐ c.

☐ d.

Yes, the answer is correct.
Score: 1

Accepted Answers:
a.