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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Problem Solving Through Programming In C (course)



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Course outline

How does an
NPTEL
online
course
work? ()

Week 0 : ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Week 2 : Assignment 2

The due date for submitting this assignment has passed.

Due on 2023-08-09, 23:59 IST.

Assignment submitted on 2023-08-08, 01:10 IST

1) Which of the following is not a C variable?

1 point

- ☐ a) Count123
- ☐ b) Count_123
- ☒ c) Count@123
- ☐ d) X_123_Count

Yes, the answer is correct.

Score: 1

Accepted Answers:

c) Count@123

2) A function

1 point

- ☐ a) is a block of statements to perform some specific task
- ☐ b) is a fundamental modular unit to perform some task
- ☐ c) has a name and can be used multiple times
- ☒ d) All the above options are true

Yes, the answer is correct.

Score: 1

Accepted Answers:

d) All the above options are true

3) The execution of any C program is

1 point

Week 6 ()**DOWNLOAD
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July 2023 ()**

- ☒ a) Sequential
- ☐ b) Parallel
- ☐ c) Multi-threading
- ☐ d) None of these

Yes, the answer is correct.
Score: 1

Accepted Answers:
a) *Sequential*

4) Syntax error occurs when

1 point

- ☒ a) The rules of grammar of the programming language is violated
- ☐ b) The statements in the program have no meaning
- ☐ c) The program gives wrong or undesired output
- ☐ d) Some illegal operation (e.g. divide by zero) is performed

Yes, the answer is correct.
Score: 1

Accepted Answers:
a) *The rules of grammar of the programming language is violated*

5) If integer needs two bytes of storage, then the minimum value of a signed integer in C would be **1 point**

- ☐ a) -65535
- ☐ b) 0
- ☐ c) -32,767
- ☒ d) -32,768

Yes, the answer is correct.
Score: 1

Accepted Answers:
d) *-32,768*

6) What will be the output of the program given below? **1 point**

```
#include <stdio.h>
int main()
{
    a=9;
    printf("%d", a);
    return 0;
}
```

- ☐ a) 9
- ☐ b) 0
- ☐ c) 1001
- ☒ d) Compilation Error

Yes, the answer is correct.

Score: 1

Accepted Answers:

d) *Compilation Error*

7)

What is the output?

1 point

```
#include<stdio.h>
#define fun(x) (x*x)
int main()
{
    float i;
    i = 64.0/fun(2);
    printf("%.2f", i);
    return 0;
}
```

- ☐ a) 8.00
☐ b) 4.00
☐ c) 0.00
☒ d) 16.00

Yes, the answer is correct.

Score: 1

Accepted Answers:

d) 16.00

8)

1 point

The following C program swaps the value of two numbers without using any third variable. What will be the correct option to fill up the blank?

```
#include <stdio.h>
int main()
{
    int a=2, b=3;
    printf("The values before swapping a = %d, b=%d", a, b);

    _____

    printf("The values after swapping a = %d, b=%d", a, b);
    return 0;
}
```

- ☐ a) a=a-b; b=a-b; a=a+b;
☐ b) a=a%b; b=a+b; a=a/b;
☒ c) a=a+b; b=a-b; a=a-b;
☐ d) None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

c) $a=a+b$; $b=a-b$; $a=a-b$;

9) What will be the output?

1 point

```
#include <stdio.h>
int main() {
    int x = 1, y = 3;
    int t = x;
    x = y;
    y = t;
    printf("%d %d", x, y);
    return 0;
}
```

- ☐ a) 1 3
- ☒ b) 3 1
- ☐ c) 1 1
- ☐ d) 3 3

Yes, the answer is correct.

Score: 1

Accepted Answers:

b) 3 1

10) When executed the following code will print _____.

```
#include <stdio.h>
int main() {
    int sum = 3 + 6 / 2 + 6 * 2;
    printf("%d", sum);
    return 0;
}
```

18

Hint

Yes, the answer is correct.

Score: 1

Accepted Answers:

(Type: Numeric) 18

1 point