

Students' Knowledge in Programming

This is a survey regarding the knowledge of students in the field of technology regarding programming.

* Required

1. Email address *

2. Full Name *

3. School/University *

4. Course *

5. Grade/Year Level *

6. What field in technology do you desire to work in? *

Check all that apply.

- ☐ Game Development
☐ Website Development
☐ Database Administrator
☐ Software Engineer

Other: ☐

7. Do you know how to program before you entered college level? *

Mark only one oval.

- ☐ Yes
☐ No

8. Did you know that the course you've taken has programming subjects? *

Mark only one oval.

☐ Yes

☐ No

9. How many years have you been programming? *

10. What are the programming languages you are comfortable with? *

Check all that apply.

☐ C/C++

☐ Java

☐ C#

☐ Python

☐ Javascript

☐ Lua

Other: ☐ _____

11. In what method of education do you learn the best/most? *

Check all that apply.

☐ Classroom setting

☐ Watching video tutorials

☐ Reading tutorials

☐ Modifying someone else's code

☐ One-on-one sessions

Other: ☐ _____

12. What do you find hard to learn about programming ? *

Check all that apply.

☐ Concepts

☐ Syntax

☐ Terminologies

☐ Code editor/Integrated Development Environment (IDE)

☐ Data structures

☐ Algorithm

☐ Data types

☐ Conditionals

Other: ☐ _____

13. Which alternative method do you prefer to use in learning programming? *

Mark only one oval.

☐

Visual Interactive Environment

☐

Block-based programming

☐

Other: _____

14. Do you have a laboratory subject for programming aside from lecture? *

Mark only one oval.

☐

Yes

☐

No Skip to question 19

Laboratory Assessment

15. Do you have different instructors/teachers for laboratory and lecture? *

Mark only one oval.

☐

Yes

☐

No

16. What software do you use for programming during your laboratory subject? *

Check all that apply.

☐

TurboC\C++

☐

DevC++

☐

Netbeans

☐

Eclipse

☐

VS Code

☐

Codeblocks

☐

Notepad

Other: ☐ _____

17. Do you find the softwares used in your laboratory for programming difficult to use? *

Mark only one oval.

☐ Yes

☐ No Skip to question 19

18. What are the things you find difficult in using softwares in your laboratory for programming? *

Check all that apply.

☐ Old/Outdated design

☐ Hard to compile, build, and run

☐ Messy/Cluttered interface - too many elements are in the screen

☐ Error/warning messages are unhelpful/complicated

Other: ☐ _____

Rating

19. Rate your knowledge and skill in programming *

Mark only one oval.

	1	2	3	4	5	
Not confident in my knowledge and skill	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very confident in my knowledge and skill

20. Rate your knowledge about Programming Logic *

Mark only one oval.

	1	2	3	4	5	
lowest	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	highest

21. Rate your knowledge about Data Structures *

Mark only one oval.

	1	2	3	4	5	
lowest	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	highest

22. Rate your knowledge about Conditionals *

Mark only one oval.

	1	2	3	4	5	
lowest	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	highest

23. Rate your knowledge about Data Types *

Mark only one oval.

	1	2	3	4	5	
lowest	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	highest

24. Rate your knowledge about Memory *

Mark only one oval.

	1	2	3	4	5	
lowest	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	highest

25. Rate your knowledge about Debugging *

Mark only one oval.

	1	2	3	4	5	
lowest	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	highest

26. Rate your knowledge about Algorithm *

Mark only one oval.

	1	2	3	4	5	
lowest	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	highest

27. Please choose the correct data type for the following value *

5 points

Mark only one oval per row.

	Double or Float	Integer	Character	String	Boolean
10.0f	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
"Hello World"	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
true	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
'c'	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Consider the code below

```
int a = 10;  
int b = 20;
```

28. evaluate: (a < b) *

1 point

Mark only one oval.

- ☐ true
☐ false

29. evaluate: (a != b) *

1 point

Mark only one oval.

- ☐ true
☐ false

30. evaluate: (! (a < b)) *

1 point

Mark only one oval.

- ☐ true
☐ false

31. evaluate: (a == (b - 10)) *

1 point

Mark only one oval.

- ☐ true
☐ false

Consider the code below:

```
1 int a = 20;  
2 int *b = &a;  
3 (*b)++;
```

32. What is the value of b in line number 2? *

1 point

Mark only one oval.

- ☐ 20
- ☐ 21
- ☐ a

33. What is the value of b in line number 3? *

1 point

Mark only one oval.

- ☐ 20
- ☐ 21
- ☐ 22

34. What is the final value of a? *

1 point

Mark only one oval.

- ☐ 20
- ☐ 21
- ☐ 22
- ☐ b

Consider the code below:

```
int c[] = {1, 2, 3, 4, 5};
```

35. What is the value of c[1]? *

1 point

Mark only one oval.

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 0

36. What is the value of c[5]? *

1 point

Mark only one oval.

- ☐ Out of bounds
- ☐ 6
- ☐ 5
- ☐ 0

Consider the code below:

```
int a = 5;  
int b = 7;
```

```
if (a < b)  
    a -= b;  
else  
    b += a;
```

```
a++;  
b++;
```

37. What is the final value of a? *

1 point

Mark only one oval.

- ☐ -2
- ☐ -1
- ☐ 0
- ☐ 1
- ☐ 2

38. What is the final value of b? *

1 point

Mark only one oval.

- ☐ 7
- ☐ 8
- ☐ 9
- ☐ 6

Consider the code below:

```
int a = 5;  
int b = 20;
```

```
for (int i = a; i < b; i += 2)  
{  
    a++;  
    b--;  
}
```


39. What is the final value of a? *

1 point

40. What is the final value of b? *

1 point

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