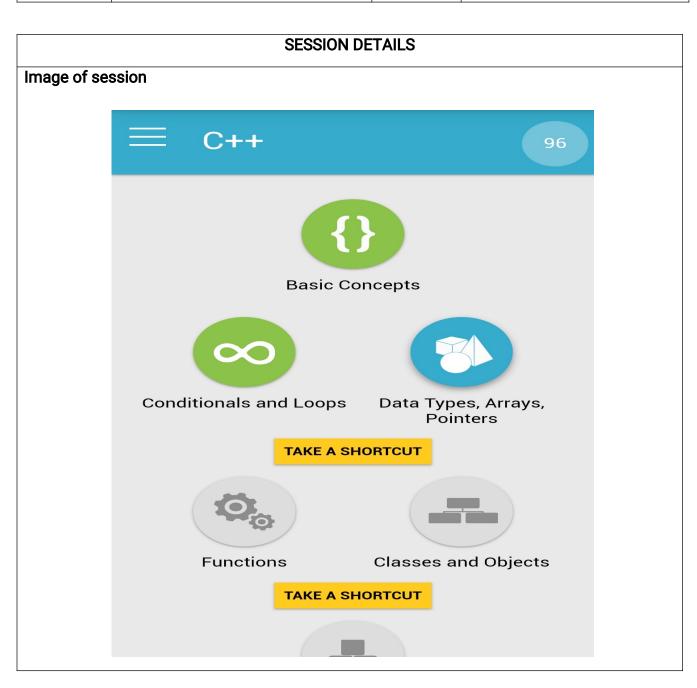
DAILY ASSESSMENT FORMAT

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Course:	C++ Programming	USN:	4al17ec001
Topic:	Basic ConceptsConditional and loops	Semester & Section:	6 & 'A'
Github Repository:	Abhishek-online-courses		



Report -

Module 1 : Basic Concepts

- C++ is a general-purpose programming language.
- **C++** is used to create computer programs. Anything from art applications, music players and even video games.

• Components required to build C++ programs are,

- ✓ Integrated Development Environment (IDE): Provides tools for writing source code. Any text editor can be used as an IDE.
- ✓ Compiler. Compiles source code into the final executable program. There are a number of C++ compilers available. The most frequently used and free available compiler is the GNU C/C++ compiler.

Comments:

- ✓ Comments are explanatory statements that you can include in the C++ code to explain what the code is doing.
- ✓ The compiler ignores everything that appears in the comment, so none of that
 information shows in the result.
- \checkmark A comment beginning with two slashes (//) is called a single-line comment.
- ✓ Comments that require multiple lines begin with /* and end with */.

Variables:

- Creating a variable reserves a memory location, or a space in memory for storing values.
- ✓ The compiler requires that you provide a data type for each variable you declare.
- ✓ C++ offer a rich assortment of built-in as well as user defined data types.
- ✓ We have the option to assign a value to the variable at the time you declare the variable or to declare it and assign a value later.

• Arithmetic Operators:

✓ C++ supports these arithmetic operators.

Operator	Symbol	Form
Addition	+	x + y
Subtraction	-	x - y
Multiplication	*	x * y
Division	1	x / y
Modulus	%	x % y

Module 2: Conditionals and loops

If sttement

✓ The **if** statement is used to execute some code if a condition is true.

✓ Syntax:

```
if (condition) {
    statements
}
```

else statement

✓ An if statement can be followed by an optional else statement, which executes when the condition is false.

✓ Syntax:

```
if (condition) {
  //statements
}
else {
  //statements
}
```

While loop

✓ A while loop statement repeatedly executes a target statement as long as a given condition remains true.

✓ Syntax:

```
while (condition) {
  statement(s);
}
```

For loop

✓ A **for** loop is a repetition control structure that allows you to efficiently write a loop that executes a specific number of times.

✓ Syntax:

```
for ( init; condition; increment ) {
  statement(s);
}
```

do while loop

✓ A do...while loop is similar to a while loop. The one difference is that the
do...while loop is guaranteed to execute at least one time.

✓ Syntax:

```
do {
   statement(s);
} while (condition);
```

Switch statement

✓ The **switch** statement tests a variable against a list of values, which are called cases, to determine whether it is equal to any of them.

✓ Syntax:

```
switch (expression) {
```

```
case value1:
    statement(s);
    break;
    case value2:
    statement(s);
    break;
    ...
    case valueN:
    statement(s);
    break;
}
```

• Logical Operators

 $\checkmark \;\;$ Use logical operators to combine conditional statements and return true or false.

Operator	Name of Operator	Form
&&	AND Operator	y && y
П	OR Operator	x y
!	NOT Operator	! x