Chapter 2

- ## Select the correct answer

1. What is a computer program?

   Select the correct answer

   - **a.** The process of planning and creating a program
   - **b.** A set of rules, symbols, and special words
   - **c.** A set of values together with a set of operations
   - ✓ **d.** A sequence of statements whose objective is to accomplish a task

2. What is programming?

   Select the correct answer

   - ✓ **a.** The process of planning and creating a program
   - **b.** A set of values together with a set of operations
   - **c.** A set of rules, symbols, and special words
   - **d.** A sequence of statements whose objective is to accomplish a task

3. Which of the following is a reserved word in C++?

   Select the correct answer

   - **a.** conversion
   - **b.** payRate
   - **c.** first
   - ✓ **d.** cout

4. Which of the following is a legal identifier in C++?

    Select the correct answer

    ✓ **a.** _underscore
    ○ **b.** 2NUMBER
    ○ **c.** $cin
    ○ **d.** second!

5. What are whitespaces used for in a C++ program?

    Select the correct answer

    ○ **a.** To specify the meaning of the instructions
    ○ **b.** To provide information for the compiler
    ✓ **c.** To separate special symbols, reserved words, and identifiers
    ○ **d.** To make the program readable

6. What are the three categories of data types in C++?

    Select the correct answer

    ○ **a.** Simple, complex, user-defined
    ○ **b.** Simple, complex, reserved words
    ✓ **c.** simple , structurd, pointers
    ○ **d.** Integral, floating-point, reserved words

7. Which of the following is an integral data type in C++?

    Select the correct answer

    ○ **a.** bool
    ○ **b.** float
    ✓ **c.** char
    ○ **d.** double

1. What is the result of the expression 3 * 7 - 6 + 2 * 5 / 4 + 6?

   Select the correct answer

   - a. 17
   - b. 18
   - c. 23.5
   - **d. 23** ✓

   $21 - 6 + 10/4 + 6$

   $21 - 6 + 2 + 6$

   $15 + 2 + 6$

   23

2. What is the result of the expression 5 * 2.5 - 2.5?

   Select the correct answer

   - a. 3.20
   - b. 10.5
   - **c. 10.0** ✓
   - d. 5.0

   $12.5 - 2.5 = 10.$

3. What is the cast operator used for in C++?

   Select the correct answer

   - a. Evaluating an expression
   - b. Changing the type of an operand
   - c. Implicit type coercion
   - **d. Explicit type conversion** ✓

4. What is a string in C++?

   Select the correct answer

   - a. A reserved word
   - b. A data type
   - c. A sequence of characters
   - **d. All** ✓

5. What is the length of the string "William Jacob"?

Select the correct answer

   ✓ **a.** 13
      b. 11
      c. 10
      d. 12

6- what is the output

```
int x = 10;
x=5;
cout<<x;
```

- **5**
- 10
- error
- x

7- what is the output

```
const int x = 10;
x=5;
cout<<x;
```

- 5
- 10
- **error**
- x