



Principles of Programming in C - Question Bank (IA1 - IA POP)

bachelor of computer science (St Claret College)



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Question Bank-Principles of Programming using C

Module 1

1. Give the structure of C program. With the help of suitable example program, illustrate each.
2. Define variable. List the rules to be followed to name the identifier/variable. List out valid and invalid identifiers for each rule.
3. Define datatype. List and explain the datatypes available in C language.
4. What is constant? Demonstrate the different methods of defining constants in C with syntax and example.
5. List and explain different types of constants in C.
6. Define operator. List and explain different types of operators in C.
7. Define operator precedence and associativity. Why it is important? Justify answer with suitable example.
8. Illustrate the uses of following operators:
i. ++ and -- ii. logical operators iii. bitwise operators
9. Define type conversion/type casting. Give the output of following code snippets and justify the output.
a.

```
int a=5,b=3;
float c;
c=a/b;
printf("%f",c);
```


b.

```
int a=5,b=3;
float c;
c=(float)a/b;
printf("%f",c);
```
10. Example programs discussed in class.

Module 2

1. Differentiate linear and nonlinear execution of programs in C. Brief about statements supporting nonlinear execution of programs.
2. List and explain different decision making statements available in C with syntax and example programs.
3. Compare and contrast while and do-while.
4. List and explain looping control statements in C with syntax and example program to compute factorial of number.
5. Differentiate between break and continue. Write a program to check whether given number is prime or not.
6. With syntax, illustrate working of nested loops. Write program to print the following output by applying the nested loops.
1
1 2
1 2 3
1 2 3 4
7. Other example program discussed in Class.