

**Indian Institute of Technology Bombay**  
**IDP in Educational Technology**

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**Part 1 – Plan your PI activity**

**Subject: programming in C**

**Topic: Input Output In C**

**Part 2 – Type of PI Instruction**

**A. Goal: Conceptual reasoning “one right answer” questions.**

Which among the following is the odd one out?

- a) printf
- b) fprintf
- c) putchar
- d) scanf

Student time – (1 -2 minutes)

**B. Goal: Discussion “no one right answer” questions**

What is the default return-type of getchar()?

- a) char
- b) int
- c) char \*
- d) reading character doesn't require a return-type

Student time – (3 minutes)

**C. Goal: Predict an outcome (e.g., of an experiment, or a program)**

For a typical program, the input is taken using \_\_\_\_\_

- a) scanf
- b) Files
- c) Command-line
- d) All of the mentione

Student time – (3 minutes)

**D. Goal: Embed reasoning in answers**

What is the value of EOF?

- a) -1
- b) 0
- c) 1
- d) 1

Student time –(2 minutes)

**E. Goal: Reason using representations**

What is the use of getchar()?

- a) The next input character each time it is called
- b) EOF when it encounters end of file
- c) The next input character each time it is called EOF when it encounters end of file
- d) None of the mentione

Student time – (2 minutes)

**F. Goal: As a stepping stone to problem-solving**

Which of the following statement is true?

- a) The symbolic constant EOF is defined in <stdio.h>
- b) The value is -1
- c) The symbolic constant EOF is defined in <stdio.h> & value is -1
- d) Only value is -1

Student time – (3 minutes)

**G. Goal: Recall point from previous lecture**

What is the return value of putchar()?

- a) The character written
- b) EOF if an error occurs
- c) Nothing
- d) Both character written & EOF if an error occur

Student time – (2 minutes)

**H. Goal: Survey questions / personal opinion**

What does the following command line signify?

*prog1|prog2*

- a) It runs prog1 first, prog2 second
- b) It runs prog2 first, prog1 second
- c) It runs both the programs, pipes output of prog1 to input of prog2
- d) It runs both the programs, pipes output of prog2 to input of prog1

Student time –(3 minute)

**Part 3 – Challenges, Best Practices and Resources**

**Part 4 (Optional): Conduct an education research study**