

GIRLS' HIGH SCHOOL AND COLLEGE, PRAYAGRAJ

ASSIGNMENT - 02

SESSION 2020-2021

CLASS 10 C, D, E, F

SUBJECT: COMPUTER APPLICATIONS

Instructions: The parents to ensure that their ward watches the video instructions for the assignment by clicking on the given link: <https://youtu.be/hYnhiHTsdMg> . She should revise the lesson given in the book and then work on the assignment. The completed assignment is to be downloaded and filed/pasted in the subject file/copy and kept ready for submission. The day date and procedure of submission shall be notified later.

Reference Book: Logix Class 10 ( Kips Publications)

Website: w3schools.com

TOPIC – CONDITIONAL CONSTRUCTS IN JAVA

Answer the following questions:

1. Differentiate between if and switch statement.
2. Determine the values of variable x and variable y:  
int a=99, b=76;  
boolean x = (a < b) ? true : false;  
int y = (a < b) ? a : b;
3. Rewrite the following program segment using if-else statements instead of the ternary operator.  
String grade = (marks >= 90)? "A" : (marks >= 80)? "B" : "C";
4. An electronic company gives a discount on the total amount of goods sold as per the following table. Write a program in java which accepts the product price and the number of units sold. Calculate the amount of discount applicable and the amount payable.

Total Cost	Discount Rate
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$\geq$ Rs. 100,000	5%
$\geq$ Rs. 75,000 and $<$ Rs. 100,000	3.5%
$\geq$ Rs. 50,000 and $<$ Rs. 75,000	2.5%
$\geq$ Rs. 20,000 and $<$ Rs. 50,000	1.5%
$<$ Rs. 20,000	1%

5. What is the significance of break in a switch statement?
6. Create a menu driven program to perform the following operations:
  - i. Addition
  - ii. Subtraction
  - iii. Multiplication
  - iv. Division
  - v. Remainder

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