

C

FUNDAMENTALS

Test – CC100

**Topics –
Operators, If else,
switch
and
for loops**

Date – 14/11/2021

Question 1 |

Give the output of the following code:

- a)

```
if(true && false && true || false)
    System.out.println("True.");
else
    System.out.println("False");
```
- b)

```
int ok=10;
switch(ok)
{
    default:
        System.out.println("default");
    case 0:
        System.out.println("true");
    case 1:
        System.out.println("false");
}
```

Question 2 |

Write a program to check whether an alphabet is vowel or consonant using switch case.

Example:

Input:

Enter an alphabet: A

Output:

A is a Vowel

Input:

Enter an alphabet: b

Output:

b is a Consonant

Question 3 |

Write a program to check whether a number is Prime number or not.

Definition: Prime numbers are the positive integers having only two factors, 1 and the integer itself.

Example:

Input:

Enter a number: 29

Output:

29 is a Prime Number

Input:

Enter a number: 9

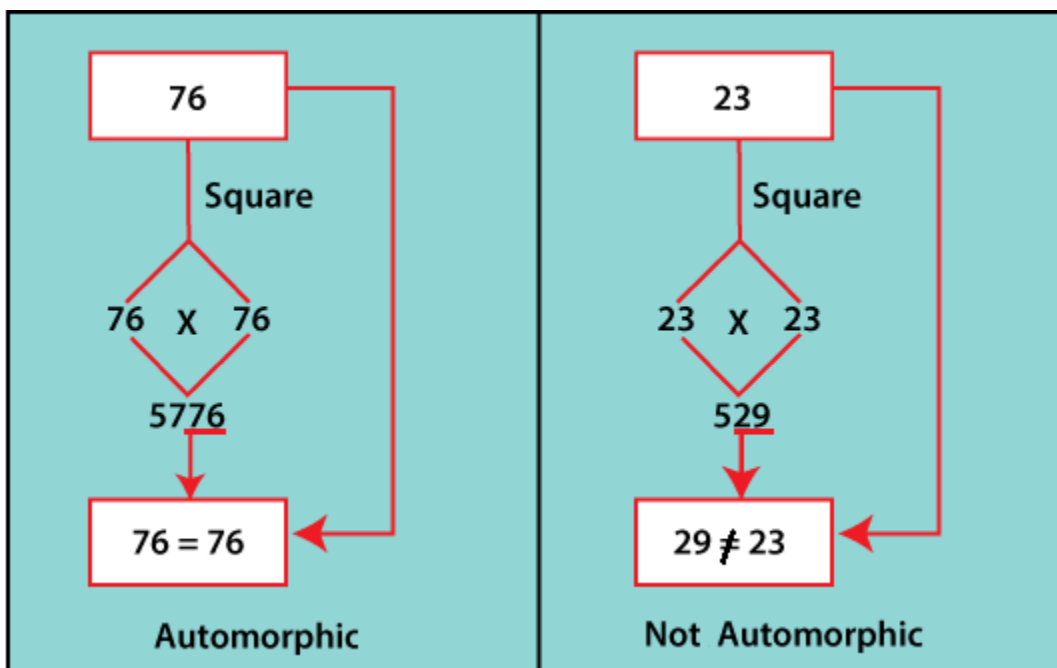
Output:

9 is NOT a Prime Number

Question 4 |

Write a program to check whether a number is Automorphic number or not.

Definition: A number is called an automorphic number if and only if the square of the given number ends with the same number itself.



Example:

Input:

Enter a number: 76

Output:

76 is an Automorphic Number

Question 5 |

Write a program to check whether sum of digits of the square of the number is equal to the number. If yes, print “Correct Number” else print “Incorrect Number”.

Example:

Number to check: 9

Square of a given number: $9 * 9 = 81$

Sum of digits of square number: $8 + 1 = 9$ // Correct Number

Number to check: 8

Square of a given number: $8 * 8 = 64$

Sum of digits of square number: $6 + 4 = 10$ // Incorrect Number

Question 6 |

Print the following pattern using loops.

Pattern –

```
*  
**  
***  
****  
*****
```

Question 7 |

Print the pattern using loops depending on user input.

Example:

Input:

Enter a number: 2

Output:

1

1

2

Input:

Enter a number: 4

Output:

1

1

2

1

2

3

1

2

3

4

Thankyou
Hope so you did your best