

GLS UNIVERSITY

BCA SEM IV

0301405 PRACTICAL ON CORE JAVA

UNIT -1

ASSIGNMENT DATE: 22nd July, 2022

1. Write a Java program that will convert the given temperature in fahrenheit to celcius using the formula $C=(F-32)/1.8$
2. Write a Java program to calculate gross salary and net salary of an employee.
Gross salary = Hourly rate * total number of hours worked
Net salary = gross salary - tax (7.5%)
Take values from users using Scanner class.
3. Write a Java Program that will accept a number from the user and calculate its square and cube and display the same.
4. Write a Java Program to calculate the simple interest and ask the user to input required values.
5. Write a Java Program to find area of a circle.
6. Write a Java Program that will ask the user to input two numbers. Perform all the arithmetic operations and display the same.
7. Write a Java Program that take user Year as input from user making use of JoptionPane class and check whether its leap year or not.
8. Write a Java Program that take one number from user making use of JoptionPane class and check whether its Odd number or Even number.
9. Write a Java Program that will ask the user to input one number and check whether its prime number or not.
10. Write a Java Program that calculate are of triangle. Take input from user by making use of Scanner class.
11. Write a Java program that will convert length in feet to centimeters.
12. Write a Java program that will find the factorial of number. Take input from

user.

13. Draw the following pattern in Java -

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

14. Draw the following pattern in Java -

```
54321  
4321  
321  
21  
1
```

15. Write a Java program to enter two numbers and find the smallest out of them. Use conditional operator.
16. Write a Java Program to Find the Largest Number Among three Numbers Entered by User.
17. Write a Java program to check whether the blood donor is eligible or not for donating blood. The conditions laid down are as under. Use if statement.
- a) Age should be above 18 yrs but not more than 55 yrs.
 - b) Weight should be more than 45kgs.
18. Write a program to display the grade according to the marks entered by the user using else-if ladder.
19. Write a Java Program to Check Whether a Number is Palindrome or Not
20. Write a Java program to reverse a number.
21. Write a Java program to check whether a number is palindrome or not.
22. Write a Java program to display all even numbers from 1 to 100 using for-loop.

23. Write a Java program to display all prime numbers from 1 to 100.
24. Write a Java program to display all numbers from 120 to 200 which are divisible by 11.
25. Write a Java Program to display all prime odd numbers from 50 to 100.
26. Write a Java program to display following pattern -

```
      *  
  
    ***  
  
  *****  
  
*****  
  
*****
```
27. Write a Java Program to find sum of all odd numbers between 100 to 130.
28. Write a Java program to display following pattern-

```
54321  
5432  
543  
54  
5
```
29. Write a Java program to display all numbers between 1 to 50 which are divisible by 5 and 7 both.
30. Write a program to find average of three numbers.
31. Write a program to generate student mark sheet(Total,percentage)on console,accept the three subject marks from user(using Scanner class).
32. Write a Java program to check whether character entered by user is Vowel or not.(Using JOptionPane class)
33. Write a Java program to display string using nextLine() method.
34. Write a program to develop calculator using JOptionPane class.
35. Write a Java program to Check whether number entered by user is Armstrong Number or not.

Program Allocation as per below table -

Roll Number	Questions
A1 to A10, B1 to B10, C1 to C10	1,11,30,35,10,20,21,31
A11 to A20, B11 to B20, C11 to C20	2,12,29,34,9,19,22,32
A21 to A30, B21 to B30, C21 TO C30	3,13,28,33, 8,18,23,31
A31 to A40, B31 to B40, C31 TO C40	4,14,27,32, 7,17,24,34
A41 to A50, B41 to B50, C41 TO C50	5,15,26,31, 6,16,25,35
A51 to A60, B51 to B60, C51 TO C60	6,16,25,35, 5,15,26,31
A61 to A70, B61 to B70, C61 TO C70	7,17,24,34, 4,14,27,32
A71 to A80, B71 to B80, C71 TO C80	8,18,23,33,3,13,28,31
A81 to A90, B81 to B90, C81 TO C90	9,19,22,32,2,12,29,34
A91 Onwards, B91 Onwards,C91 Onwards	10,20,21,31,1,11,30,35