

# UNIVERSITY OF SINDH LAAR CAMPUS BADIN

## BS(Computer Science) PART-I

2<sup>nd</sup> Semester 2023

### Object Oriented Programming (Java)

Assignment No:01

Last Date: 25-10-2023

Q.No.1. Write a program to print the first 30 odd and even numbers, also display sum of all even and odd numbers separately. (By using Loop)

**Output:**

Even numbers	Odd numbers
02	01
04	03
06	05
08	07
--	--
-----	
Sum: ---	----

Q.No.2. Write a program that asks the user to enter **Basic pay** and print **pay-slip** of the Employee.

**Output:**

```
Please enter Basic pay?40000
Pay Slip
Basic pay           :40000
House Rent (40%)    :10160
Medical All ounce (18%) :5000
Computer Allowance(15%) :5000
-----
Total pay:           : ----
```

Q.No.3. Write a program to print the following series. (By using Loop)

- (i) 1    4    9    16    25    36    49 ..... 100
- (ii) 1    8    27    64 ..... 1000
- (iii) 3    6    10    15    21    28    36

Q.No.4. Write a program to calculate area of square.

Q.No.5. Write a program to calculate area of rectangle.

Q.No.6. Write a program to convert a given amount in notes/coins?

**Example:**

Enter any amount? 9897

Output:

1000	500	100	50	20	10	5	2	1
9	1	3	1	2	0	1	1	0

Q.No.7. Write a program to take input of Seat No, Subjects & Marks of a student & calculate the total & percentage, & display the output in table format.

**Example:**

MARKSHEET

Roll No	Subjects	Marks
2k18/CS/01	English	80
2k18/CS/01	Basic Electronics	60
2k18/CS/01	Mathematics	50
2k18/CS/01	Introduction to Computers	70
2k18/CS/01	Computer Language	50

Total Marks : 310

Percentage % : 62.00

Q.No.8. Write a program to calculate area of circle.

Q.No.9. Write a program to generate multiplication table. (By using Loop)

**output:**

Enter table no? 8

Start from? 2

Up to ? 7

Table-8

2 \* 8 = 16

3 \* 8 = 24

4 \* 8 = 32

5 \* 8 = 40

6 \* 8 = 48

7 \* 8 = 56

-----  
Sum: 27 48 216

Q.No.10. Write a program to convert a given Seconds into Hours, Minutes and Seconds?

**Output:**

Input Seconds? -----

Hours	Minutes	Seconds
---	----	----

Q.No.11. Write a Program to find the largest and smallest number from given 10 numbers.

**Example:**

Enter any 10 integer numbers? 4 6 12 56 3 8 34 32 40 22

Largest number : 56

Smallest number : 3

Q.No.12. Write a program that asks the user to enter two numbers, and prints the sum, product, difference, quotient and remainder of the two numbers.

**Output:**

Please enter two numbers ? 9 4

Sum of 9 and 4 is: 13

Product of 9 and 4 is: 36

Difference of 9 and 4 is: 05

Quotient of 9 and 4 is: 02

Remainder of 9 and 4 is: 01

-----  
Total is: 57

Q.No.13. Write a program to convert binary number to octal number.

**Output:**

Enter any binary number? 1 1 0 1 0 1 1 1

Octal number is : 327

Q.No.14. Write a program to display following output: (By using Loop)

**Example:**

enter 1st number =1

enter last number=10

sum is:  $1+2+3+4+5+6+7+8+9+10 = 55$ .

Q.No.15. Write a program to convert a given number of Days in terms of Years, Weeks and Days.

Q.No.16. Write a program that calculates the squares and cubes to print the output as under:  
(By using Loop)

**Output:**

Start from -----? 3

Up to -----? 7

Number	Square	Cube
3	09	27
4	16	64
5	25	125
6	36	216
7	49	343

==== =====

Sum:    25            135            775

Q.No.17. Write a program to find first Ten numbers Divisible by 5. (By using Loop)

**Example:**

Output: 5   10   15   20   25   30   35   40   45   50

Q.No.18. Write a program to read two integers N1 and N2 and Swap their values.

**Output:**    Enter value of N1 ? 72

Enter value of N2 ? 38

Value of N1 is : 38

Value of N2 is : 72

Q.No.19. Write a program to convert decimal number into binary number?

**Sample output:**

Enter any decimal number: 50

Equivalent binary value of decimal number 50: 110010

Q.No.20. Write a program that inputs one five-digit number, separates the number into its individual digits and prints the digits separated from one another by three spaces and also print sum of five-digits?

**Output:**

Please enter five-digit number ? 43215

Separated from one another by three spaces: 4    3    2    1    5

Sum of five digits: 15

Q.No.21. Write a program to print ASCII value of all characters.

Q.No.22. Write a program to reverse any number.

**output:**

Enter any number? 3452

Reverse of 3452 is: 2543

Q.No.23. Write a program to convert binary number to Hexadecimal number.

**Output:**

Enter any binary number? 1 1 0 0 1 1 0 1 0 1

Hexadecimal number is : 335

Q.No.24 Write a program to count the number of words, where a word is defined as any continuous sequence of non-whitespace character

Example:

input any string? "Laar Campus Badin "

output: The string has 3 words

Q.No.25 Write a Java program to add two binary numbers.

Input Data:

Input first binary number: 10

Input second binary number: 11

Expected Output

Sum of two binary numbers: 101

Q.No.26 Write a Java program to reverse your name.

Input a name: -----

Reverse name: -----

Q.No.27 Write a Java program to solve quadratic equations.

take your own suppositions

Q.No.28 Write a Java program to get a number from the user and print whether it is positive or negative.

Q.No.29 Write a Java program to find the number of days in a month.

*Test Data*

Input a month number: 2

Input a year: 2016

*Expected Output :*

February 2016 has 29 days

Q.No.30 Write a program in Java to make such a pattern like right angle triangle with number increased by 1. The pattern like :

```
1
2 3
4 5 6
7 8 9 10
```