Fork Infosystems, Karad.

Assignment On Variables, Data Types , Input/Output

1. Write a program to display the message "Hello World".

2. Write Program to accept student details from user as student name, roll number, course, city Display all information after accepting info using single print statement.

   Input: Enter Student Name: Ajay
          Enter Roll Number: 12345
          Enter Course: Computer Science
          Enter City: Pune

    Output: Student Name: Ajay,
           Roll Number: 12345,
           Course: Computer Science,
           City: Pune

3. Create a program to add two numbers provided by the user and display the result.

    Input: Number 1: 8
         Number 2: 15
    Output: The result of adding 8 and 15 is: 23

4. Write a program to multiply two numbers provided by the user and display the result.

    Input: Number 1: 6
        Number 2: 7
   Output: The result of multiplying 6 and 7 is: 42

5. Write a program to accept marks of 3 subjects and calculate and display total and percentage.

    Input: Marks in Subject 1: 85
         Marks in Subject 2: 90
         Marks in Subject 3: 78
    Output: Total Marks: 253, Percentage: 84.33%

6. Write Program to print size of int, float, double, etc.

   Output: Size of char: 1 byte
          Size of int: 4 bytes
          Size of float: 4 bytes
          Size of double: 8 bytes

7. Write Program to print ASCII table (0-127)

8. Write Program to find out ASCII value of given character.

Input: Character: L **Output**: The ASCII value of 'A' is: 76

9. Write a program to find the character for an ASCII value provided by the user and display the result.

Input: ASCII Value: 70
Output: The character for ASCII value 70 is: 'F'

10. Accept character from user and display its ASCII value in decimal, octal and hexadecimal format.

Input : Character	A
Output : Decimal	65
Hexadecimal	0101
Octal	0X41

11. Write a program which accept radius of circle from user and calculate its area. Consider value of PI as 3.14. (Area = PI * Radius * Radius)

Input : 1.12 Output: **3.940816**

12. Write a program which accept radius of circle from user and calculate its Circumference. Consider value of PI as 3.14. (Circumference = 2 * PI * Radius)

Input: 5.35 Output: 33.61

13. Write a program which accept width & height of rectangle from user and calculate its area. (Area = Width * Height)

Input: Width: 7.5	Height: 4.2
Output: Area: 31.5	

14. Write a program that accepts the side length of a square from the user and calculates its area. (Area of Square = Side * Side)

Input: 1.12
Output: 1.2544

15. Write a program which accept distance in kilometer and convert it into meter. (1 kilometer = 1000 Meter)

Input:	Distance: 5.7 km
Output:	Distance in meters: 5700 meters

16. Write a program which accept temperature in Fahrenheit and convert it into Celsius.
    (1 Celsius = (Fahrenheit -32) * (5/9))

Input: Temperature: 98.6°F
Output: Temperature in Celsius: 37.00°C

17. Write a program that accepts a number from the user and calculates the square of that number. (Square = Number * Number)

Input: 3
Output: 9

18. Write a program that accepts a number from the user and calculates the cube of that number. (Cube = Number * Number * Number)

Input: 3
Output: 27

19. Write a program to accept a number from the user and calculate the square root of that number, then display the result. (SquareRoot = sqrt(No))

Input: Number: 16
Output: The square root of 16 is: 4

20. Write a program that accepts two numbers from the user and swaps their values.

Input: A = 5, B = 10
Output: After swapping: A = 10, B = 5

21. Write a program that accepts two numbers from the user and swaps their values. (Without using a third variable)

Input: A = 5, B = 10
Output: After swapping: A = 10, B = 5

22. Write a program that accepts three numbers from the user and swaps their values such that the value of the first number goes to the second, the second goes to the third, and the third goes to the first.

Input: A = 1, B = 2, C = 3
Output: After swapping: A = 3, B = 1, C = 2