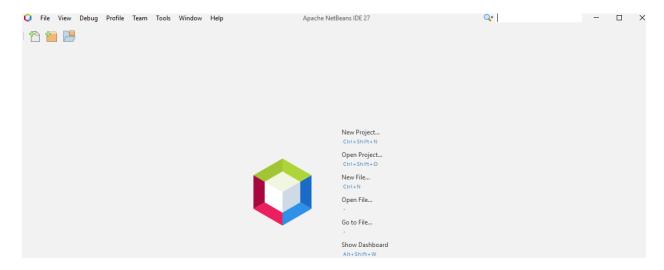
COMSATS University Islamabad Abbottabad Campus Department of Computer Science

Lab Task 01

Install Java JDK and NetBeans IDE on Your Laptop and create first project

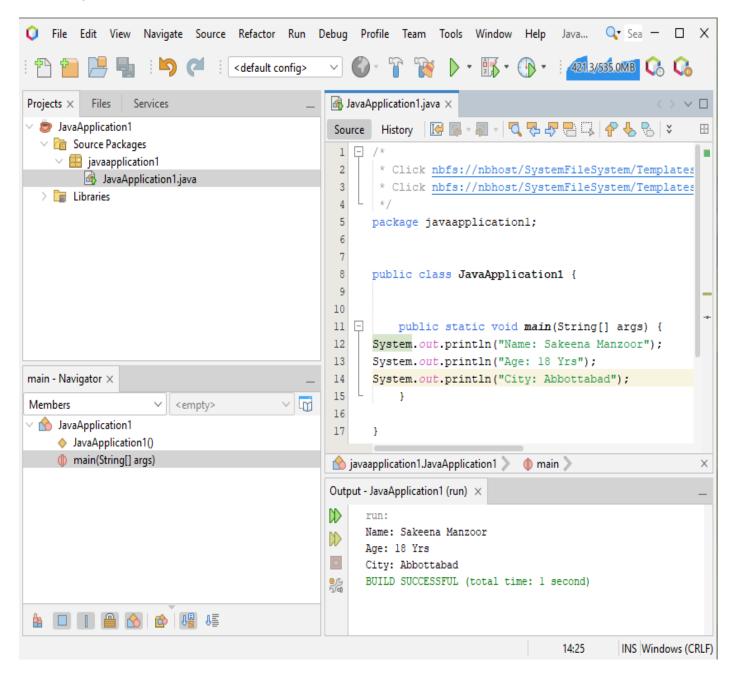
INSTALLED



Lab Task 02

Java Basics Practice

1. **Print Your Details** Write a Java program to print your name, age, and city on the screen.



2. Simple Arithmetic Calculator

Write a program that takes two numbers as input from the user and displays their sum, difference, product, and quotient.

SUM:

```
→ JavaApplication1.java ×

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 5
     package javaapplicationl;
 6 - import java.util.Scanner;
 8
     public class JavaApplication1 {
 9
10
11 =
          public static void main(String[] args) {
Q.
       Scanner scanner = new Scanner(System.in);
13
              System.out.println("Enter the first number:");
14
15
              int numl = scanner.nextInt();
16
              System.out.println("Enter the second number:");
17
              int num2 = scanner.nextInt();
18
19
20
              int sum = numl + num2;
21
22
              System.out.println("The sum of the two numbers is: " + sum);
23
24
              scanner.close();
25
26
27
```

OUTPUT:

```
Output - JavaApplication1 (run) ×

run:
Enter the first number:
2
Enter the second number:
3
The sum of the two numbers is: 5
BUILD SUCCESSFUL (total time: 14 seconds)
```

DIFFERENCE:

```
Source History | 🔀 📮 - 📮 - | 🔩 🖓 🖶 | 🖟 😓 | 😩 💇 | 💿 🗆 | 👑 📑
       * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt
       * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Main.java to edit thi
 3
      */
 4
 5
     package javaapplication1;
 6 - import java.util.Scanner;
 7
 8
      public class JavaApplication1 {
 9
10
11 -
         public static void main(String[] args) {
Q.
       Scanner scanner = new Scanner(System.in);
13
14
              System.out.println("Enter the first number:");
15
             int numl = scanner.nextInt();
16
17
             System.out.println("Enter the second number:");
             int num2 = scanner.nextInt();
18
19
             int difference = numl - num2;
20
21
 P
              System.out.println("The sum of the two numbers is: " + difference);
23
24
              scanner.close();
25
26
27
```

OUTPUT:

```
Output - JavaApplication1 (run) ×

run:
Enter the first number:
2
Enter the second number:
3
The sum of the two numbers is: 6
BUILD SUCCESSFUL (total time: 1 minute 34 seconds)
```

PRODUCT

```
    JavaApplication1.java 

    ✓ 

Source History 🖟 📮 - 🔻 - 🔍 😎 🗗 🖫 🔓 - 🚭 🔮 🔘 🔠 💆 🔘 🔲 🕌 📑
      package javaapplication1;
 5
 6 - import java.util.Scanner;
 7
 8
      public class JavaApplication1 {
 9
10
11 =
          public static void main(String[] args) {
 Q.
       Scanner scanner = new Scanner(System.in);
13
14
              System.out.println("Enter the first number:");
15
              int numl = scanner.nextInt();
16
17
              System.out.println("Enter the second number:");
18
              int num2 = scanner.nextInt();
19
20
              int product = numl * num2;
21
Q
             System.out.println("The sum of the two numbers is: " + product);
23
24
              scanner.close();
25
26
27
      }
28
```

OUTPUT:

```
Output - JavaApplication1 (run) ×

run:
Enter the first number:
2
Enter the second number:
3
The sum of the two numbers is: 6
BUILD SUCCESSFUL (total time: 1 minute 34 seconds)
```

QOUTIENT:

```
→ JavaApplication Ljava ×

       History | 🔀 📮 - 📮 - | 🔼 🖓 🐶 🖶 📮 | 🔗 😓 | 💇 💇 | 💿 🔲 | 🕌 📑
 7
 8
      public class JavaApplication1 {
 9
10
11 📮
          public static void main(String[] args) {
9
       Scanner scanner = new Scanner(System.in);
13
14
              System.out.println("Enter the first number:");
15
              int numl = scanner.nextInt();
16
17
              System.out.println("Enter the second number:");
18
              int num2 = scanner.nextInt();
19
20
              int goutient = num1/ num2;
21
V
              System.out.println("The sum of the two numbers is: " + qoutient);
23
24
              scanner.close();
25
26
27
```

```
Output - JavaApplication1 (run) ×

run:
Enter the first number:
4
Enter the second number:
2
The sum of the two numbers is: 2
BUILD SUCCESSFUL (total time: 8 seconds)
```

3. Even or Odd Number Write a program that asks the user to enter a number and prints whether it is even or odd.

```
History | 🔛 📭 🔻 🔻 🗸 🏷 📇 🛶 | 🕆 🌭 🏗 | 🛂 🛂 | 🔘 🔲 | 🕌 🚆
     package javaapplicationl;
  import java.util.Scanner;
8
     public class JavaApplication1 {
9
10 🖃
         public static void main(String[] args) {
8
       Scanner scanner = new Scanner(System.in);
12
13
             // Prompt the user to enter a number
14
             System.out.print("Enter an integer: ");
15
16
             int number = scanner.nextInt();
17
18
  if (number % 2 == 0) {
19
                  System.out.println(number + " is an even number.");
20
                  System.out.println(number + " is an odd number.");
21
22
23
             scanner.close();
24
25
```

```
Output - JavaApplication1 (run) ×

run:
Enter an integer: 4
4 is an even number.
BUILD SUCCESSFUL (total time: 10 seconds)
```

4. Temperature Converter Write a Java program to convert a temperature from Celsius to Fahrenheit. The formula is: Fahrenheit = (Celsius × 9/5) + 32.

```
→ JavaApplication Ljava ×

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       * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Main.java to edit this t
      package javaapplicationl;
   import java.util.Scanner;
 8
      public class JavaApplication1 {
 9
10 =
          public static void main(String[] args) {
9
       Scanner input = new Scanner(System.in);
12
13
              System.out.print("Enter temperature in Celsius: ");
14
              double celsius = input.nextDouble();
15
16
17
              double fahrenheit = (celsius * 9 / 5) + 32;
18
19
              System.out.println("Temperature in Fahrenheit: " + fahrenheit + "°F");
20
              input.close();
21
22
23
24
25
```

```
Output - JavaApplication1 (run) ×

run:
Enter temperature in Celsius: 33
Temperature in Fahrenheit: 91.4 F
BUILD SUCCESSFUL (total time: 5 seconds)
```

5. Find the Largest Number Write a program that asks the user to enter three numbers and prints the largest number among them.

```
△ JavaApplication1.java ×

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       * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Main.java to edit this temp
 5
     package javaapplication1;
 6 - import java.util.Scanner;
 8
      public class JavaApplication1 {
 9
10 =
         public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
Q.
             System.out.print("Enter the first number: ");
12
13
             int numl = input.nextInt();
14
             System.out.print("Enter the second number: ");
15
             int num2 = input.nextInt();
16
             System.out.print("Enter the third number: ");
17
             int num3 = input.nextInt();
18
             int largest;
19
             if (numl >= num2 && numl >= num3) {
20
                 largest = numl;
             } else if (num2 >= num1 && num2 >= num3) {
21
   largest = num2;
22
   Ė
23
             } else {
24
                 largest = num3;
25
             System.out.println("The largest number is: " + largest);
26
27
             input.close();
28
29
30
```

```
Output - JavaApplication1 (run) ×

run:
Enter the first number: 1
Enter the second number: 2
Enter the third number: 3
The largest number is: 3
BUILD SUCCESSFUL (total time: 16 seconds)
```

6. Day of the Week Using Switch Write a program that asks the user to enter a number (1–7) and prints the corresponding day of the week using a switch statement.

```
→ JavaApplication1.java ×

Source History 🔀 🖫 - 🖫 - 🔍 禄 🐶 🖶 🖫 🖓 🐣 🕒 🖆 💇 🔵 🔲 🍱 🚆
       Scanner input = new Scanner(System.in);
10
              System.out.print("Enter a number (1-7) to get the corresponding day of the week: ");
11
              int dayNumber = input.nextInt();
 Q.
              switch (dayNumber) {
13
                  case 1:
14
                      System.out.println("Sunday");
15
                      break;
16
                   case 2:
17
                      System.out.println("Monday");
18
                      break;
19
                   case 3:
20
                      System.out.println("Tuesday");
21
                      break:
22
                  case 4:
23
                      System.out.println("Wednesday");
24
                      break:
25
                   case 5:
26
                      System.out.println("Thursday");
27
                      break:
28
                   case 6:
29
                      System.out.println("Friday");
30
                      break:
31
32
                      System.out.println("Saturday");
33
                      break:
34
                   default:
35
                      System.out.println("Invalid input. Please enter a number between 1 and 7.");
36
Output - JavaApplication1 (run) ×
\mathbb{R}
       Enter a number (1-7) to get the corresponding day of the week: 4
       BUILD SUCCESSFUL (total time: 10 seconds)
```