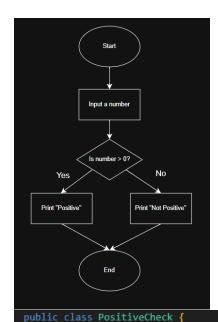
CDAC Mumbai Lab Assignment-1 Flowchart and Java Programming

ANSWERS

Flowchart + Java Program Questions

1. Check Positive Number:

- ☐ Task: Create a flowchart to check whether a number is positive.
- □ Next Step: Write a Java program that checks if a predefined number is positive using an if-else statement and prints the appropriate message.

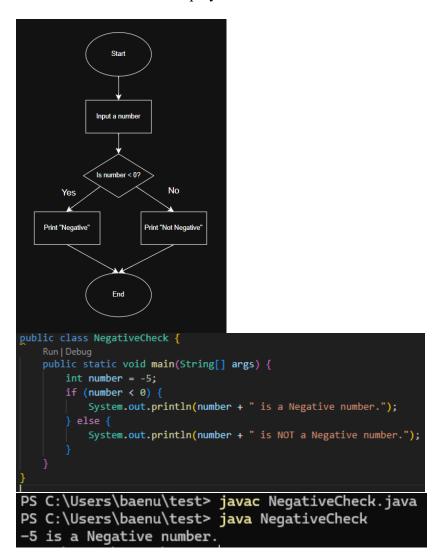


```
Run|Debug
public static void main(String[] args) {
    int number = 10;
    if (number > 0){
        System.out.println(number + " is a Positive number.");
    }
    else{
        System.out.println(number + " is NOT a Positive number.");
    }
}
```

- PS C:\Users\baenu\test> javac PositiveCheck.java
- PS C:\Users\baenu\test> java PositiveCheck
- 10 is a Positive number.
- PS C:\Users\baenu\test>

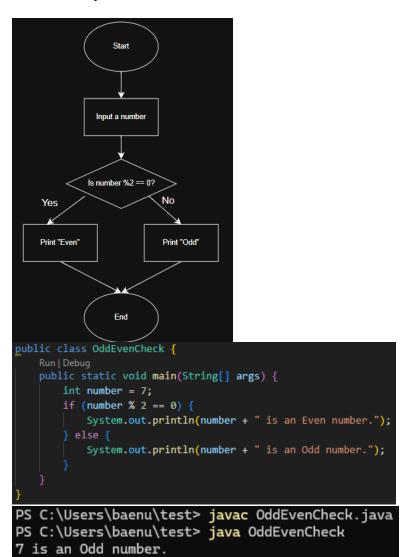
2. Check Negative Number:

- ☐ Task: Create a flowchart to check whether a number is negative.
- \square Next Step: Write a Java program that checks if a predefined number is negative using an if-else statement and displays the result.

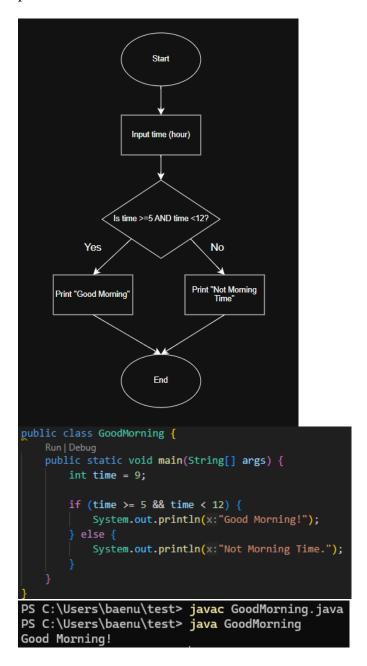


3. Check Odd or Even Number:

- ☐ Task: Create a flowchart to determine whether a number is odd or even.
- □ Next Step: Write a Java program that checks if a predefined number is odd or even. Use an if-else statement and the modulus operator (%) to determine whether the number is divisible by 2 or not.

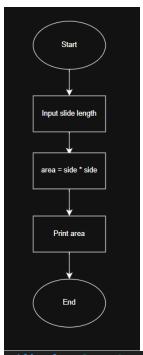


- 4. Display Good Morning Message Based on Time:
- ☐ Task: Create a flowchart to display a "Good Morning" message based on a given time. ☐ Next Step: Write a Java program that displays a "Good Morning" message if the
- predefined time is between 5 AM and 12 PM. Use an if statement to implement the logic.



5. Print Area of a Square:

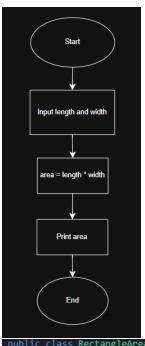
- ☐ Task: Create a flowchart to calculate and print the area of a square.
- \square Next Step: Write a Java program that calculates the area of a square using the formula area = side * side. Use a predefined side length.



```
public class SquareArea {
    Run|Debug
    public static void main(String[] args) {
        int side = 6;
        int area = side * side;
        System.out.println("Area of square = " + area);
    }
}
PS C:\Users\baenu\test> javac SquareArea.java
PS C:\Users\baenu\test> java SquareArea
Area of square = 36
```

6. Print Area of a Rectangle:

- ☐ Task: Create a flowchart to calculate and print the area of a rectangle.
- □ Next Step: Write a Java program that calculates the area of a rectangle using the formula area = length * width. Use predefined values for length and width.



```
public class RectangleArea {
    Run | Debug
    public static void main(String[] args) {
        int length = 8;
        int width = 5;
        int area = length * width;
        System.out.println("Area of rectangle = " + area);
    }
}
PS C:\Users\baenu\test> javac RectangleArea.java
```

PS C:\Users\baenu\test> javac RectangleArea.java
PS C:\Users\baenu\test> java RectangleArea
Area of rectangle = 40

- 7. Find the Largest of Three Numbers:
- ☐ Task: Create a flowchart to find the largest of three numbers.
- □ Next Step: Write a Java program that finds and prints the largest of three predefined numbers using if-else statements.

