

## Java Question & Answers – 3

1. Write a Java Program to calculate gross salary of an employee is input by user. And the allowance is -

if basic salary $\geq$ 15000	if basic salary $<$ 15000
then, da = 15% of the basic	then, da = 10% of the basic
and, hra = 10% of the basic	and, hra = 1000

Ans:

```
import java.util.Scanner;

public class Programthree {
    public static void main(String[] args){
        //Take input
        System.out.print("Enter your Basic Salary : ");
        Scanner s1=new Scanner(System.in);
        float basicSalary = s1.nextFloat();
        //calculation
        double allowance;
        if(basicSalary>=15000){
            allowance = basicSalary*25d/100d;
        }else{
            allowance = basicSalary*10d/100d+1000;
        }
        double grossSalary = basicSalary+allowance;
        System.out.printf("Your Gross salary is
%.2f",grossSalary);
    }
}
```

Output:

Enter your Basic Salary : 12000

Your Gross salary is 14200.00

2. Write a java program to print weekday using switch case.

Ans:

```
import java.util.Scanner;

public class Programthree {
    public static void main(String[] args){
        //Take input
        System.out.print("Enter a number : ");
        Scanner s1=new Scanner(System.in);
        int weekDay = s1.nextInt();
        //calculation and output
        switch (weekDay){
            case 1:
                System.out.println("Monday");
                break;
            case 2:
                System.out.println("Tuesday");
                break;
            case 3:
                System.out.println("Wednesday");
                break;
            case 4:
                System.out.println("Thursday");
                break;
            case 5:
                System.out.println("Friday");
                break;
            case 6:
                System.out.println("Saturday");
                break;
            case 7:
                System.out.println("Sunday");
                break;
            default:
                System.out.println("Please enter a number
                                   between 1 to 7");
        }
    }
}
```

```
}
```

### Output:

Enter a number : 3

Wednesday

3. Write a program to find largest among three numbers.

Ans :

```
import java.util.Scanner;

public class Programthree {
    public static void main(String[] args) {
        System.out.print("Enter first number : ");
        Scanner s1=new Scanner(System.in);
        int firstNumber=s1.nextInt();
        System.out.print("Enter second number : ");
        Scanner s2=new Scanner(System.in);
        int secondNumber = s2.nextInt();
        System.out.print("Enter third number : ");
        Scanner s3=new Scanner(System.in);
        int thirdNumber = s3.nextInt();
        //calculation and output
        if(firstNumber>secondNumber){
            if(firstNumber>thirdNumber)
                System.out.printf("%d is largest.",
                                   firstNumber);
            else
                System.out.printf("%d is largest.",
                                   thirdNumber);
        }else {
            if(secondNumber>thirdNumber)
                System.out.printf("%d is largest.",
                                   secondNumber);
            else
                System.out.printf("%d is largest.",thirdNumber)
        }
    }
}
```

```
    }  
  }  
}
```

**output:**

Enter first number : 45

Enter second number : 34

Enter third number : 56

56 is largest.

**4. Write a Java Program to print all the ascii from A to Z.**

**Ans:**

```
public class Programthree {  
    public static void main(String[] args) {  
        for(int i=65;i<=90;i++)  
            System.out.printf("%c, ",i);  
    }  
}
```

**Output:**

A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S,  
T, U, V, W, X, Y, Z,

**5. Write a Java Program to convert a small letter into a capital letter and capital letter into small letter.**

**Ans:**

```
import java.util.Scanner;  
  
public class Programthree {
```

```
public static void main(String[] args) {
    System.out.print("Enter a letter : ");
    Scanner s=new Scanner(System.in);
    int myChar = s.next().charAt(0);
    if(myChar>=65 && myChar<=90){
        System.out.printf("You entered %c",myChar+32);
    }else{
        System.out.printf("You entered %c",myChar-32);
    }
}
```

### Output:

Enter a letter : T

You entered t

6. Write a java program to calculate addition, subtraction, multiplication, division, power of two numbers.

Ans:

```
import java.util.Scanner;

public class Programthree {
    public static void main(String[] args) {
        char rep;
        do {
            System.out.println("***** Calculator *****");
            System.out.print("Enter the operation(+, -, *, /, ^) = ");

            Scanner s = new Scanner(System.in);
            char operation = s.next().charAt(0);
            // Validation
            if(operation!='+' && operation!='-' && operation!=
                '*' && operation!='/' && operation!='^')
                System.out.println("Please enter a valid
                                    operation.");
        } while (rep != 'n');
    }
}
```

```

else {
    System.out.print("Enter First Number : ");
    Scanner s1 = new Scanner(System.in);
    double firstNumber = s1.nextInt();
    System.out.print("Enter Second Number : ");
    Scanner s2 = new Scanner(System.in);
    double secondNumber = s2.nextInt();
    double ans = 0;
    // Calculation
    switch (operation) {
        case '+':
            ans = firstNumber + secondNumber;
            break;
        case '-':
            ans = firstNumber - secondNumber;
            break;
        case '*':
            ans = firstNumber * secondNumber;
            break;
        case '/':
            ans = firstNumber / secondNumber;
            break;
        case '^':
            ans = Math.pow(firstNumber,
                           secondNumber);
            break;
    }
    // Output
    System.out.printf("Result = %.2f\n", ans);
}
System.out.print("Do you want to Continue (Y/N) :
                ");

Scanner s3 = new Scanner(System.in);
rep = s3.next().charAt(0);
}while(rep == 'y' || rep == 'Y');
}
}

```

## Output:

```
***** Calculator *****
```

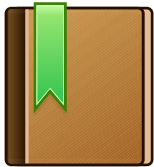
```
Enter the operation(+, -, *, /, ^) = -
```

```
Enter First Number : 45.34
```

```
Enter Second Number : 341.34
```

```
Result = -296.00
```

```
Do you want to Continue (Y/N) : n
```



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