

Given cost price and selling price of a product, write a program to calculate profit gained by the seller.

```
float profit = sp - cp;
    // Type your code below
    System.out.println(profit);
}
}
```

Write a program to calculate the simple interest on the amount given.

```
double interest = (p * n * r) / 100;
    // Type your code below
    System.out.println(interest);
}
}
```

Write a program to calculate the gross salary on the basis of basic salary given by employee. Diet Allowance (DA) is 20% of basic salary. House Rent Allowance (HRA) is 30% of basic salary. Gross salary is sum of the basic, DA and HRA.

```
double da = 0.20 * basic_salary;
    double hra = 0.30 * basic_salary;
    double gross_salary = basic_salary + da + hra;
    // Type your code below
    System.out.println(gross_salary);
}
}
```

Write a program to calculate the area and perimeter of a circle for given radius of the circle.

```
final double PI = 3.14;
    // Type your code below
    double area = PI * radius * radius;
    double perimeter = 2 * PI * radius;

    System.out.println(area);
    System.out.println(perimeter);
}
}
```

Write a program to convert the given temperature from Celsius to Fahrenheit.

```
double fahrenheit = (celcius * 9 / 5) + 32;
    // Type your code below
    System.out.println(fahrenheit);
}
}
```

Write a program to determine the number of Rs 500, Rs 200, and Rs 100 notes needed to dispense for a given amount. The function should minimize the number of notes dispensed by prioritising higher denominations first.

```
int amountToDispense = amount;

        int rs500 = amountToDispense / 500;
        amountToDispense = amountToDispense % 500;

        int rs200 = amountToDispense / 200;
        amountToDispense = amountToDispense % 200;

        int rs100 = amountToDispense / 100;
        // Type your code below
        System.out.println(rs500);
        System.out.println(rs200);
        System.out.println(rs100);
    }
}
```

Write a java program to find the summation of digit for given three digit number as given below.

```
int hundreds = n / 100;
        int tens = (n % 100)/10;
        int units = n % 10;

        int sum = hundreds + tens + units;
        // Type your code below
        System.out.println(sum);
    }
}
```