



Beginner's Assignment

Batch Crux (Java Foundation)

- 1. Write a program to accept the principal amount, rate and time and calculate the simple interest and the total amount.
- 2. Write a program to input name and marks of three tests of any student and calculate and print the name and average of best two test marks.
- 3. Write a program that works as a simple calculator. It reads two integers and a character. If the character is a +, the sum is printed; if it is a -, the difference is printed; if it is a *, the product is printed; if it is a /, the quotient is printed; and if it is a %, the remainder is printed.
- 4. Write a program to determine whether the entered character is in upper case or lower case, or is an invalid character.
- 5. Write a program to calculate the total salary of a person. The user has to enter the basic and the grade and depending upon which the total salary is calculated as:

```
t_sal= basic + hra + da + allow - pf

where : hra = 20% of basic

da = 50% of basic

allow = 1700 if grade = `A'

allow = 1500 if grade = `B'

allow = 1300 if grade = `C'

pf = 11% of basic.
```

6. Write a program to calculate the roots of a quadratic equation $ax^2 + bx + c = 0$, display them on the screen specifying their nature.

7. Write the programs to print the following patterns:

(a) 1 11 111 1111 11111

(b) 1 (c) 1

(d) 1

(f) 5