```
Q. A
CODE:
class DefData{
       static int a;
       static float b;
       static char c;
       static double d;
       public static void main(String []args){
              System.out.println("Default value of int is "+ a);
              System.out.println("Default value of float is "+ b);
              System.out.println("Default value of char is "+ c);
              System.out.println("Default value of double is "+ d);
       }
F:\Assignments\Java\Asst3>java DefData
Default value of int is 0
Default value of float is 0.0
Default value of char is
Default value of double is 0.0
F:\Assignments\Java\Asst3>_
```

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Q. B
CODE:
import java.util.*;
class Gradesheet{
        public static void main(String[] args){
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter marks of PCM");
        int phy = sc.nextInt();
        int chem = sc.nextInt();
        int math = sc.nextInt();
        float total = 0,percentage=0;
        total = phy + chem + math;
        percentage = (total/300)*100;
        System.out.println("Percentage obtained : " + percentage);
        if(percentage>=90)
        System.out.println("Grade A");
        else if(percentage>=80)
        System.out.println("Grade B");
        else if(percentage>=70)
        System.out.println("Grade C");
        else if(percentage>=60)
        System.out.println("Grade D");
        else
        System.out.println("Grade Fail");
```

}

```
F:\Assignments\Java\Asst3>javac Gradesheet.java

F:\Assignments\Java\Asst3>java Gradesheet

Enter marks of PCM

90

95

98

Percentage obtained : 94.333336

Grade A

F:\Assignments\Java\Asst3>_
```

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Q. C
CODE:
import java.util.*;
class MathOp {
        public static void main(String[] args) {
                Scanner sc = new Scanner(System.in);
                int a, b;
                double ans = 0;
                while (true) {
                        System.out.println("1. Add");
                        System.out.println("2. Subtract");
                        System.out.println("3. Multiply");
                        System.out.println("4. Divide");
                        System.out.println("5. Square");
                        System.out.println("6. Squareroot");
                        System.out.println("7. Exit");
                        System.out.println("Enter your choice: ");
                        int x = sc.nextInt();
                        switch (x) {
                                case 1:
                                         System.out.println("Enter two integers");
                                         a = sc.nextInt();
                                         b = sc.nextInt();
                                         ans = a + b;
```

```
System.out.println("Addition: " + ans);
        break;
case 2:
        System.out.println("Enter two integers");
        a = sc.nextInt();
        b = sc.nextInt();
        ans = a - b;
        System.out.println("Substraction: " + ans);
        break;
case 3:
        System.out.println("Enter two integers");
        a = sc.nextInt();
        b = sc.nextInt();
        ans = a * b;
        System.out.println("Multiplication: " + ans);
        break;
case 4:
        System.out.println("Enter two integers");
        a = sc.nextInt();
        b = sc.nextInt();
        ans = a / b;
        System.out.println("Division: " + ans);
        break;
case 5:
        System.out.println("Enter integer");
        a = sc.nextInt();
        ans = a * a;
        System.out.println("Square: " + ans);
        break;
case 6:
        System.out.println("Enter integer");
```

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a = sc.nextInt();
                                                                        ans = Math.sqrt(a);
                                                                        System.out.println("Squareroot: " + ans);
                                                                        break;
                                                         case 7:
                                                                        System.exit(0);
                                                                        System.out.println("Exiting...");
                                                                        break;
                                           }
                             }
              }
F:\Assignments\Java\Asst3>javac MathOp.java
F:\Assignments\Java\Asst3>java MathOp
1. Add
2. Subtract
3. Multiply
4. Divide
5. Square
6. Squareroot
7. Exit
Enter your choice:
1
Enter two integers
4 5
Addition: 9.0
Addation: 9.0

1. Add

2. Subtract

3. Multiply

4. Divide

5. Square

6. Squareroot

7. Exit
Enter your choice:
Enter integer
Square: 25.0

    Add
    Subtract
```