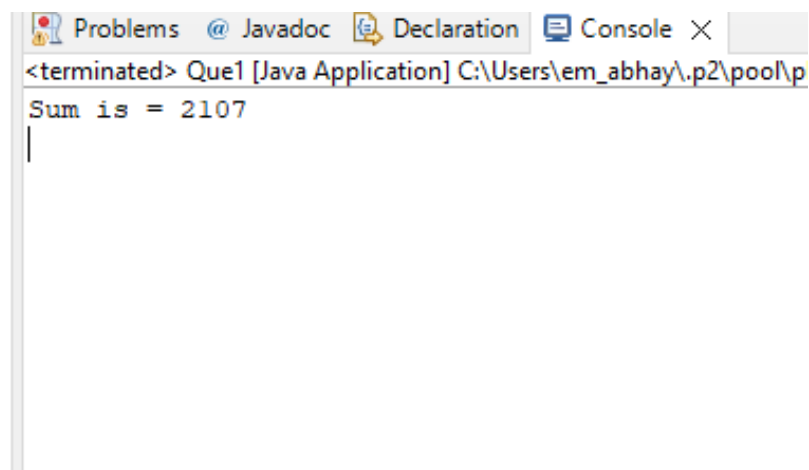**NAME : PRAVIN KHOT**

ID : KHOTPRAWIN46

Lab assignment 2

Q. 1 Write a program to find sum of all integers greater than 100 and less than 200 that are divisible by 7.

```java
public class Que1 {

    public static void main(String[] args) {
    int sum = 0;
    int count = 0;

    for (int i = 101; i < 200; i++)
    {
        if(i % 7 == 0)
        {
            sum = sum + i;
            count++;
        }
    }
        System.out.println("Sum is = " + sum);

    }
}
```

Problems @ Javadoc Declaration Console ×

\<terminated> Que1 [Java Application] C:\Users\em_abhay\.p2\pool\p

Sum is = 2107

Q. 2 Write a program in java that ask three numbers from user and print the greatest among three.

```java
import java.util.*;
public class Que2 {

public static void main(String[] args) {
Scanner s = new Scanner(System.in);

int num1;
int num2;
int num3;

System.out.println("Write three numbers");

num1 = s.nextInt();
num2 = s.nextInt();
num3 = s.nextInt();

if (num1 > num2 && num1 > num3)
System.out.println("Greater number is = " + num1);

else if (num2 > num1 && num2 > num3)
System.out.println("Greater number is = " + num2);

else if (num3 > num1 && num3 > num2)
System.out.println("Greater number is = " + num3);
}

}
```
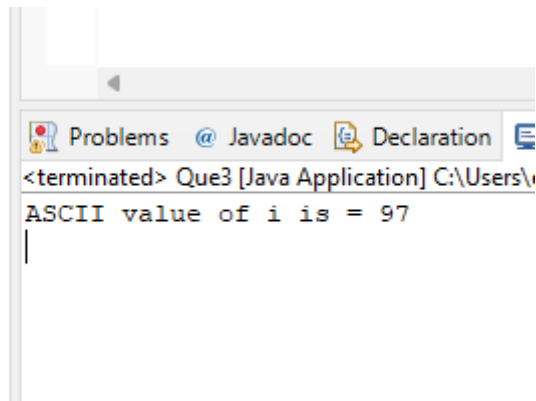
```
<terminated> Que2 [Java Application] C:\Users\em_abhay\.p2\
Write three numbers
77
105
98
Greater number is = 105
```
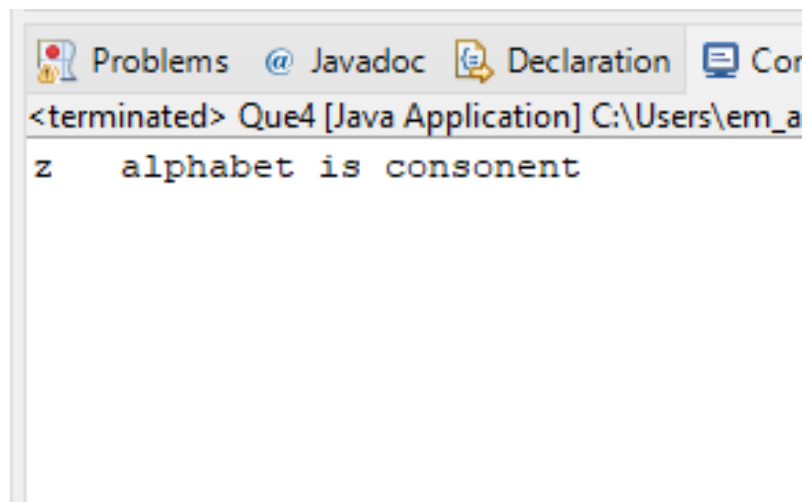
3. WAP to find ASCII value of a character.

```java
public class Que3 {

        public static void main(String[] args) {

        char ch1 = 'a';
        int i = ch1;
        System.out.println("ASCII value of i is = " + i);

        }

}
```

Problems @ Javadoc Declaration
<terminated> Que3 [Java Application] C:\Users\
ASCII value of i is = 97

4. Java Program to Check Whether an Alphabet is Vowel or Consonant.

```java
public class Que4 {

    public static void main(String[] args) {

        char ch = 'z';

        if(ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u' )
                System.out.println(ch + "alphabet is vowel");
        else
                System.out.println(ch + "alphabet is consonent");

    }

}
```

Problems @ Javadoc Declaration Cor

\<terminated\> Que4 [Java Application] C:\Users\em_a

z   alphabet is consonent

Q.5 Check if a Number is Positive or Negative using if else.

```java
import java.util.*;
public class Que5 {

    public static void main(String[] args) {

        Scanner s = new Scanner(System.in);
        int num1;

        System.out.println("Write a number");
        num1 = s.nextInt();

        if (num1 > 0)
                System.out.println("Number is positive");

                else
                System.out.println("Number is negetive");

    }
```
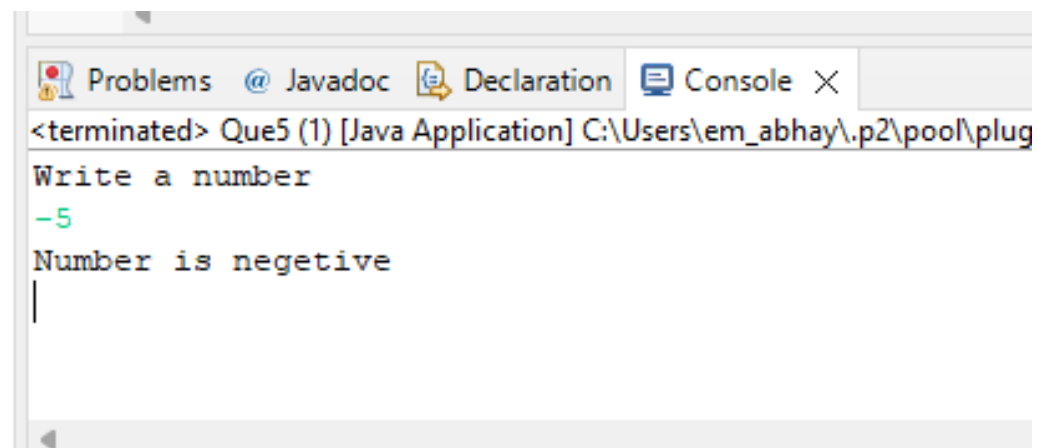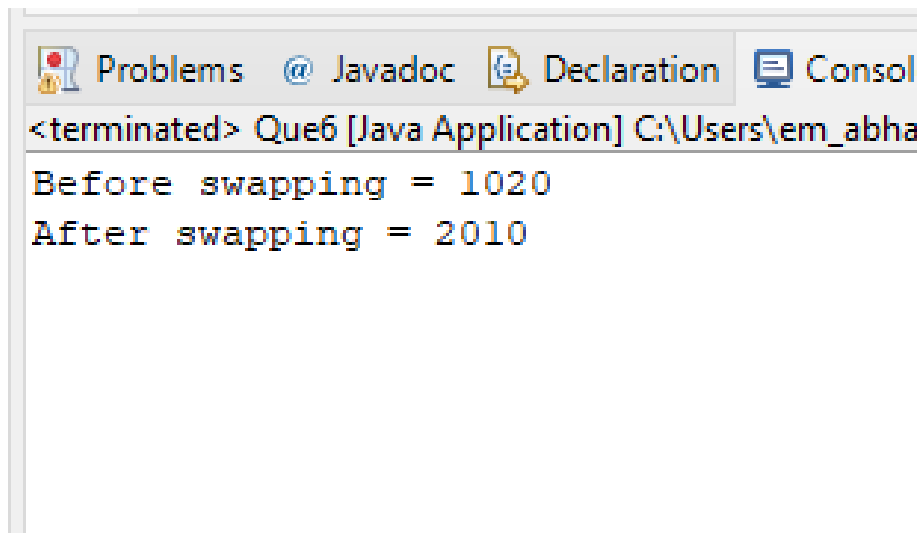
```
Problems  @ Javadoc  Declaration  Console ✕
<terminated> Que5 (1) [Java Application] C:\Users\em_abhay\.p2\pool\plug
Write a number
-5
Number is negetive
```

Q.6 WAP for swapping two numbers without using third variable.

```java
public class Que6 {
public static void main(String[] args) {

    int a = 10;
    int b = 20;

    System.out.println("Before swapping = " +a  +b);

    a = a + b;          // 10+20=30
    b = a-b;           //30-20=10
    a = a -b;          // 30-10=20
    System.out.println("After swapping = " +a  +b);


}
}
```

```
Problems  @ Javadoc  Declaration  Consol
<terminated> Que6 [Java Application] C:\Users\em_abha
Before swapping = 1020
After swapping = 2010
```

Q.8 WAP to input basic salary of an employee and calculate its Gross salary according to following:

Basic Salary <= 20000 : HRA = 25%, DA = 90%

```java
import java.util.*;
public class Que8 {

        public static void main(String[] args) {

                Scanner s = new Scanner(System.in);

                float basic_salary, hra, da, da1, hra1, Gross_payment;

                System.out.println("Enter basic salary");
                basic_salary = s.nextFloat();

                System.out.println("Enter basic DA");
                da1 = s.nextFloat();

                System.out.println("Enter basic HRA");
                hra1 = s.nextFloat();

                da = (da1 * basic_salary)/100;
                hra = (hra1 * basic_salary)/100;

                Gross_payment = basic_salary + da + hra;

                System.out.println("Gross payment is = " + Gross_payment);


        }

}
```
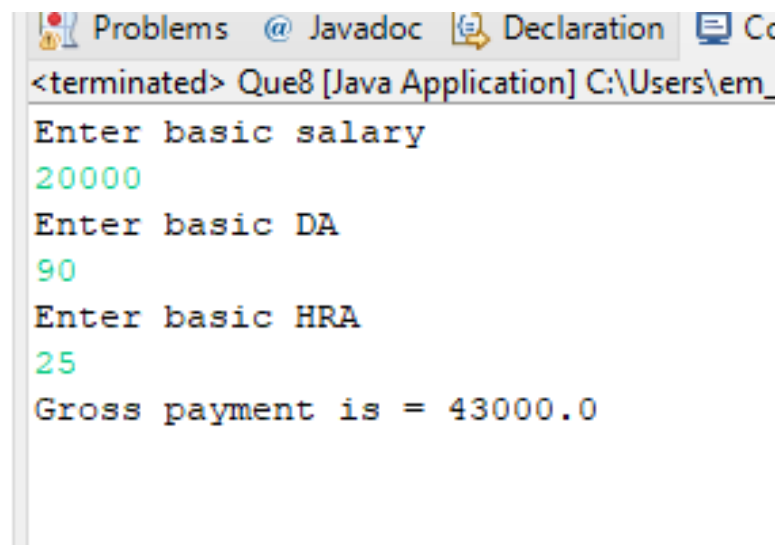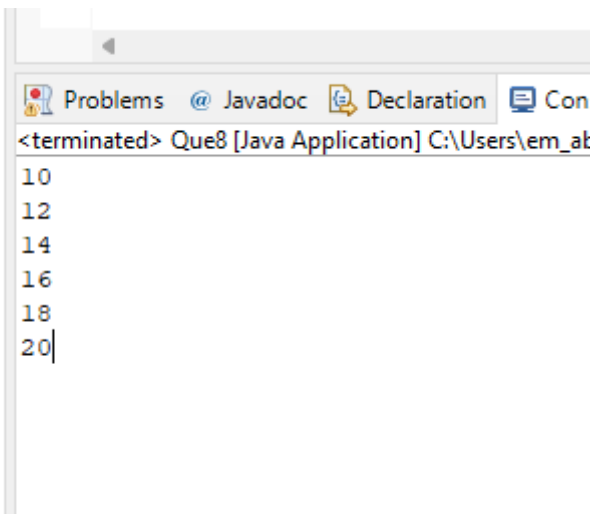
```
Problems  @ Javadoc  Declaration  Co
<terminated> Que8 [Java Application] C:\Users\em_
Enter basic salary
20000
Enter basic DA
90
Enter basic HRA
25
Gross payment is = 43000.0
```

Q .9 wap to print even numbers between 10 to 20.

```java
public class Que8 {

        public static void main(String[] args) {

                for (int i = 10; i <=20; i = i+2)

                        System.out.println(i);


        }

}
```



```
  Problems   @ Javadoc   Declaration   Con
<terminated> Que8 [Java Application] C:\Users\em_ab
10
12
14
16
18
20
```

Q.10 wap to check if a number is prime or not.

```java
import java.util.*;
public class Que10 {

    public static void main(String[] args) {

        Scanner s = new Scanner(System.in);
        int num1;

        System.out.println("Write a number");
        num1 = s.nextInt();

        int test=0;
        for(int i=2;i<num1/2;i++)
        {

        if(num1 % i ==0)
        {

          test=1;
          break;

        }

        }

        if(test==0)  System.out.println("Number is  prime");
        else      System.out.println("Number is not prime:");
    }
}
```
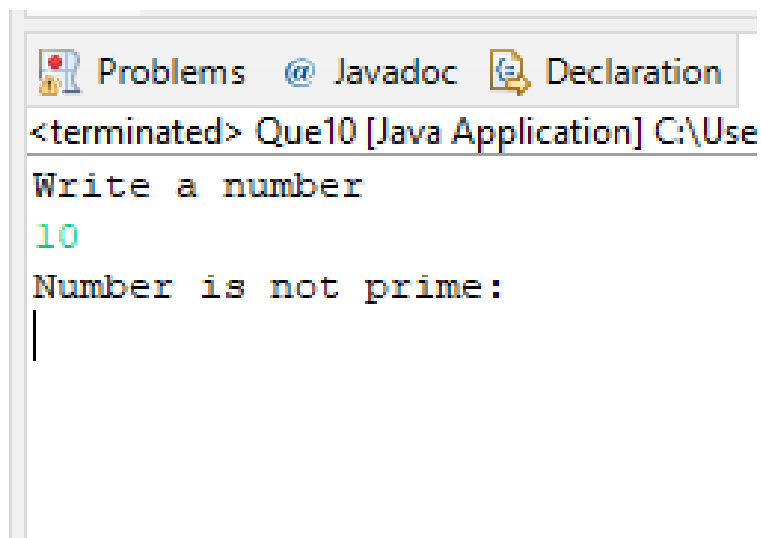
Q.11 wap to reverse a given digit   123

```java
public class Que11 {

    public static void main(String[] args) {

        int num1 = 123;
        int reverse = 0;

        for( ;num1 != 0; num1=num1/10)
        {
            int remainder = num1 % 10;
            reverse = reverse*10+remainder;
        }
        System.out.println("Reverse of the number is = " + reverse);
    }

}
```

Problems   @ Javadoc   Declaration   Console ×

\<terminated\> Que11 [Java Application] C:\Users\em_abhay\.p2

Reverse of the number is = 321