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

```
package Assignment2;

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

public class Q01 {

	public static void main(String[] args) {
		int a;
		int sum=0;
		for(a=101;a<200;a++) {
		if(a%7==0) {
			sum=sum+a;
			}
		}
		System.out.println("Sum is "+sum);
	}

}
```

Outpute:-

```
Sum is 2107
```

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

```
package Assignment2;

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

import java.util.Scanner;
public class Q02 {

	public static void main(String[] args) {
		int a;
		int b;
		int c;
		int largest;
		Scanner s=new Scanner(System.in);

		System.out.println("Enter number a=");
		a=s.nextInt();
		System.out.println("Enter number b=");
		b=s.nextInt();
		System.out.println("Enter number c=");
		c=s.nextInt();

		largest=a>b?(a>c?a:c):(b>c?b:c);
		System.out.println("Greater number is "+largest);
```

```
            s.close();
      }
```

Outpute:-

```
Enter number a=
10
Enter number b=
50
Enter number c=
20
Greater number is 50
```

3. WAP to find ASCII value of a character .

```
package Assignment2;

//3. WAP to find  ASCII value of a character .

public class Q03 {

      public static void main(String[] args) {
            int a;
            char b;
            for(a=65;a<=90;a++) {
                  System.out.println("ASCII value of "+((char)a) +" is
"+a);
            }
            for(a=97;a<=122;a++) {
                  System.out.println("ASCII value of "+((char)a) +" is
"+a);
            }

      }

}
```

Outpute:-

```
ASCII value of A is 65
ASCII value of B is 66
ASCII value of C is 67
ASCII value of D is 68
ASCII value of E is 69
ASCII value of F is 70
ASCII value of G is 71
ASCII value of H is 72
ASCII value of I is 73
ASCII value of J is 74
ASCII value of K is 75
ASCII value of L is 76
ASCII value of M is 77
ASCII value of N is 78
ASCII value of O is 79
ASCII value of P is 80
```

```
ASCII value of Q is 81
ASCII value of R is 82
ASCII value of S is 83
ASCII value of T is 84
ASCII value of U is 85
ASCII value of V is 86
ASCII value of W is 87
ASCII value of X is 88
ASCII value of Y is 89
ASCII value of Z is 90
ASCII value of a is 97
ASCII value of b is 98
ASCII value of c is 99
ASCII value of d is 100
ASCII value of e is 101
ASCII value of f is 102
ASCII value of g is 103
ASCII value of h is 104
ASCII value of i is 105
ASCII value of j is 106
ASCII value of k is 107
ASCII value of l is 108
ASCII value of m is 109
ASCII value of n is 110
ASCII value of o is 111
ASCII value of p is 112
ASCII value of q is 113
ASCII value of r is 114
ASCII value of s is 115
ASCII value of t is 116
ASCII value of u is 117
ASCII value of v is 118
ASCII value of w is 119
ASCII value of x is 120
ASCII value of y is 121
ASCII value of z is 122
```

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

```java
package Assignment2;

//4. Java Program to Check Whether an Alphabet is Vowel or Consonant
import java.util.Scanner;
public class Q04 {

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

		System.out.println("Enter the character");
		a=s.next().charAt(0);

		if(a=='a' || a=='e' || a=='i' || a=='o' || a=='u') {
			System.out.println("Character is vowel.");
		}
		else {
```

```
                System.out.println("Character is Consonant.");
            }

            s.close();
      }

}
```

Outpute:-

```
Enter the character
i
Character is vowel.
```

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

```
package Assignment2;

//5 Check if a Number is Positive or Negative using if else
import java.util.Scanner;
public class Q05 {

      public static void main(String[] args) {
      int a;
      System.out.println("Enter the number");
      Scanner s=new Scanner(System.in);
      a=s.nextInt();

      if(a>0) {
            System.out.println("Given number is Positive");
      }
      else if(a<0) {
            System.out.println("Given number is Negative");
      }
      else {
            System.out.println("Given number is Zero");
      }

      s.close();
      }

}
```

Outpute:-

```
Enter the number
-5
Given number is Negative
```

6 WAP for swapping two numbers without using third variable.

```
package Assignment2;

//6 WAP for swapping two numbers without using third variable

public class Q06 {

	public static void main(String[] args) {
		int a=20;
		int b=40;
		System.out.println("Before swap a="+a +" b="+b);

		a=a+b;
		b=a-b;
		a=a-b;
		System.out.println("Aftere swap a="+a +" b="+b);
	}

}
```

Outpute:-

```
Before swap a=20 b=40
Aftere swap a=40 b=20
```

7 Write a program that would print the information (name,
year of joining, salary, address) of three employees by creating a class named
'Employee'. The output should be as follows:

Name	Year of joining	Address
Ashish	1994	64C- WallsStreat
Sam	2000	68D- WallsStreat
John	1999	26B- WallsStreat

```
package Assignment2;
/*7 Write a program that would print the information (name,
year of joining, salary, address) of three employees by creating a class
named
'Employee'. The output should be as follows:

Name           Year of joining        Address
```

```
Ashish                  1994              64C- WallsStreat


Sam                     2000              68D- WallsStreat


John                    1999              26B- WallsStreat
*/
import java.util.Scanner;
public class Q07 {

	public static void main(String[] args) {
		String name1;
		String name2;
		String name3;

		int year1;
		int year2;
		int year3;

		String adress1;
		String adress2;
		String adress3;


		Scanner s=new Scanner(System.in);
		System.out.println("Enter Name");
		name1=s.next();

		System.out.println("Enter Year Of Joining");
		year1=s.nextInt();

		System.out.println("Enter Adress");
		adress1=s.next();


		System.out.println("Enter Name");
		name2=s.next();

		System.out.println("Enter Year Of Joining");
		year2=s.nextInt();

		System.out.println("Enter Adress");
		adress2=s.next();


		System.out.println("Enter Name");
		name3=s.next();

		System.out.println("Enter Year Of Joining");
		year3=s.nextInt();

		System.out.println("Enter Adress");
		adress3=s.next();


		System.out.println("Name\t\tyear of joining\t\tadress");
```

```
            System.out.println(name1 + "\t\t" + year1 + "\t\t\t" + adress1
+ "\t\t");
            System.out.println(name2 + "\t\t" + year2 + "\t\t\t" + adress2
+ "\t\t");
            System.out.println(name3 + "\t\t" + year3 + "\t\t\t" + adress3
+ "\t\t");
            }

      }
```

Outpute:-

```
Enter Name
Ashish
Enter Year Of Joining
1994
Enter Adress
64C-WallsStreat
Enter Name
Sam
Enter Year Of Joining
2000
Enter Adress
68D-WallsStreat
Enter Name
John
Enter Year Of Joining
1999
Enter Adress
26B-WallsStreat
Name        year of joining         adress
Ashish            1994              64C-WallsStreat
Sam         2000              68D-WallsStreat
John        1999              26B-WallsStreat
```

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

Basic Salary <= 10000 : HRA = 20%, DA = 80%

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

Basic Salary > 20000 : HRA = 30%, DA = 95%

```
package Assignment2;
/*8 WAP to input basic salary of an employee and calculate its
Gross salary according to following:
```

```
Basic Salary <= 10000 : HRA = 20%, DA = 80%


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


Basic Salary > 20000 : HRA = 30%, DA = 95%
*/
import java.util.Scanner;
public class Q08 {

	public static void main(String[] args) {
		float basic;
		float gross;

		Scanner s=new Scanner(System.in);
		System.out.println("Enter basic salary");
		basic=s.nextFloat();

		if(basic<=10000) {
			gross=(0.20f*basic)+(0.80f*basic)+basic;
			System.out.println("Gross salary is "+gross);
		}
		else if(basic>10000 && basic<=20000) {
			gross=(0.25f*basic)+(0.90f*basic)+basic;
			System.out.println("Gross salary is "+gross);
		}
		else {
			gross=(0.30f*basic)+(0.95f*basic)+basic;
			System.out.println("Gross salary is "+gross);
		}
		s.close();
	}

}
```

Outpute:-

```
Enter basic salary
50000
Gross salary is 112500.0
```

Q 8 Q wap to print even numbers between 10 to 20

```
package Assignment2;
//Q  8 Q  wap to print even numbers between 10 to 20

public class Q09 {

	public static void main(String[] args) {
		int i;
		for(i=10;i<=20;i++) {
			if(i%2==0) {
				System.out.println("even number between 10 to 20 is
"+i);
			}
```

```
		}

	}

}
```

Outpute:-

```
even number between 10 to 20 is 10
even number between 10 to 20 is 12
even number between 10 to 20 is 14
even number between 10 to 20 is 16
even number between 10 to 20 is 18
even number between 10 to 20 is 20
```

Q 9 wap to check if a number is prime or not.

```
package Assignment2;
//Q  9 wap to check if a number is prime or not

public class Q10 {

	public static void main(String[] args) {
		int a=5;
		if(a!=1 && a%2==1) {
			System.out.println("It is a prime number");
		}
		else {
			System.out.println("It is not a prime number");
		}

	}

}
```

Outpute:-

```
It is a prime number
```

Q 10 wap to reverse a given digit 123 321.

```
package Assignment2;
//Q 10 wap to reverse a given digit   123   321

public class Q11 {

	public static void main(String[] args) {
		int num=123;
		int rem;
		int revnum=0;
		System.out.println("Number before reverse is "+num);
		while(num>=1){
			rem=num%10;
			revnum=10*revnum+rem;
			num=num/10;
		}
```

```
            System.out.println("Number after reverse is "+revnum);

      }

}
```

Outpute:-

```
Number before reverse is 123
Number after reverse is 321
```