```
//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;

public class Addition {

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

    {
       for(i=101;i<200;i++)
       {
              if(i%7==0) {
                     sum=sum+i;

              }
       }
System.out.println("sum of integer greater 100 and less than 200 that are divisible
by 7is "+sum);

    }

       }

}
```

Output:

```
sum of integer greater 100 and less than 200 that are divisible by 7is 2107
```

```java
//2 Write a program in java that ask three numbers from
//user and print the greatest among three
package assignment2;

import java.util.Scanner;

public class largestnum {

	public static void main(String[] args) {

		int a,b,c;
		Scanner r=new Scanner(System.in);

		 System.out.println("enter three numbers") ;
		a=r.nextInt();
		b=r.nextInt();
		c=r.nextInt();
		if(a>b &&a>c) {
		   System.out.println("greatest no is:"+a);
		}
		else if(b>a && b>c)

		{
		System.out.println("greatest no is:"+b);

		}
		else {
		 System.out.println("greatest no is:"+c);
		}
		r.close();



		   }

		}
```

Output:

```
enter three numbers
20
30
52
greatest no is:52
```

```java
//3. WAP to find  ASCII value of a character
package assignment2;

import java.util.Scanner;

public class Ques5 {

	public static void main(String[] args) {
		Scanner r=new Scanner(System.in);
		System.out.println("enter character");
		char ch=r.next().charAt(0);
		int x=(int) ch;


		System.out.println("ASCII value of character is:"+x);
	  r.close();

	}

}
```

Output:

```
enter character
k
ASCII value of character is:107
```

```java
//4. Java Program to Check Whether an Alphabet is Vowel or Consonant
package assignment2;

import java.util.Scanner;
public class Ques4 {

	public static void main(String[] args) {
	char ch;
	Scanner r=new Scanner(System.in);
	System.out.println("enter character");
	ch=r.next().charAt(0);
	if(ch=='A'||ch=='E'||ch=='I'||ch=='O'||ch=='U'||ch=='a'||ch=='e'||ch=='o'||ch=
='u'||ch=='i')
		System.out.println("character is vowel");
	else
		System.out.println("character is consonant");
	r.close();


	}

}
```

Output:

```
enter character

 a
character is vowel
```

```
// 5 Check if a Number is Positive or Negative using if else
package assignment2;
import java.util.Scanner;

public class Question5 {

	public static void main(String[] args) {
	int x;
	Scanner r=new Scanner(System.in);
	System.out.println("enter no");
	x=r.nextInt();
	if(x>0)
    System.out.println("no is positive");
	else if(x<0) {
	System.out.println("no is negative");
	}
	else

    System.out.println("no is neither positive nor negative");

    r.close();

	}

}
```

Outut:

```
enter no

-59
no is negative
```

```java
//6 WAP for swapping two numbers without using third variable
package assignment2;
import java.util.*;

public class Question6 {
public static void main (String args[])
{


int a,b;
Scanner r= new Scanner(System.in);
System.out.println("enter numbers");

a=r.nextInt();
b=r.nextInt();
System.out.println("a and b  before swapping is "+a+" "+b);
a=a+b;
b=a-b;
a=a-b;
System.out.println("a and b after swapping is "+a+" "+b);
r.close();

}


}
```

Output:

```
enter numbers
 20
30
a and b  before swapping is 20 30
a and b after swapping is 30 20
```

```java
/*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;
import java.util.Scanner;

public class Ques8 {
```

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


                float b_sal,hra,da,gross_sal;
                hra=0;
                da=0;
                Scanner r=new Scanner(System.in);
                System.out.println("enter basic salary");
                b_sal=r.nextFloat();
                if(b_sal<=10000)
                {
                        hra=(float)(0.2*b_sal);
                        da=(float)(0.8*b_sal);
                        System.out.println("hra is "+hra);
                        System.out.println("da is "+da);

                }
                else if(b_sal<=20000)
                {
                        hra=(float)(0.5*b_sal);
                        da=(float)(0.9*b_sal);
                        System.out.println("hra is "+hra);
                        System.out.println("da is "+da);

                }
                else
                {
                        hra=(float)(0.3*b_sal);
                        da=(float)(9.5*b_sal);
                        System.out.println("hra is "+hra);
                        System.out.println("da is "+da);

                }
                gross_sal=b_sal+hra+da;



          r.close();

      }

}
Output:
enter basic salary
 25000
hra is 7500.0
da is 237500.0
```

```java
//Q 8  wap to print even numbers between 10 to 20
package assignment2;

public class Ques9 {
	public static void main(String args[])
	{


	int i;



	for(i=10;i<=20;i++)
	{
		if(i%2==0) {
			System.out.println("even no between 10 and 20 is:"+i);

		}


	}
}
}
```

Output:

```
even no between 10 and 20 is:10
even no between 10 and 20 is:12
even no between 10 and 20 is:14
even no between 10 and 20 is:16
even no between 10 and 20 is:18
even no between 10 and 20 is:20
```

```java
//Q 9 wap to check if a number is prime or not


package assignment2;

public class Ques11 {
	public static void main(String args[]){
		 int i,j=0,count=0;
		 int n=31;
		 j=n/2;
		 if(n==0||n==1){
		  System.out.println("number is not prime number"+n);
		 }else{
		  for(i=2;i<=j;i++){
		   if(n%i==0){
		    System.out.println(" number is not prime number :"+n);
		    count=1;
		    break;
		   }
		  }
		  if(count==0)  { System.out.println(" number is prime number "+n); }
		 }
```

```
            }

}
```

Output:
number is prime number 31

```
//Q 10 wap to reverse a given digit   123   321
package assignment2;

public class Ques10 {

      public static void main(String[] args) {
    int n=123;
    for(n=123;n!=0;)
    {
       System.out.print(n%10);
       n=n/10;

    }

       }

}
```

Output:
321