//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

//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

//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

//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

//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

/\*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

//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

//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