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**Java Assignment loops**

//Write a program to print a number from 1 to 10

**package** loops;

**public** **class** print {

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

**for**(**int** i=1;i<=10;i++)

{

System.***out***.println(i);

}

// **TODO** Auto-generated method stub

}

}

Output:

1

2

3

4

5

6

7

8

9

10

//Write a program to print sum of first 10 natural numbers

**package** loops;

**public** **class** sumof10 {

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

**int** sum=0;

**for**(**int** i=1;i<=10;i++)

{

sum=sum+i;

}

// **TODO** Auto-generated method stub

System.***out***.println("sum of first 10 natural numbers is = "+sum);

}

}

Output:

sum of first 10 natural numbers is = 55

//Write a program that prompts the user to input a positive integer.

//It should then print the multiplication table of that number

**package** loops;

**import** java.util.Scanner;

**public** **class** tables {

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

System.***out***.println("enter the number");

**int** n;

**int** i;

Scanner sc=**new** Scanner(System.***in***);

i=sc.nextInt();

**for**( n=1;n<=10;n++)

{

System.***out***.println(+i+" x "+n+" = "+i\*n);

}

// **TODO** Auto-generated method stub

}

}

Output:

enter the number

10

10 x 1 = 10

10 x 2 = 20

10 x 3 = 30

10 x 4 = 40

10 x 5 = 50

10 x 6 = 60

10 x 7 = 70

10 x 8 = 80

10 x 9 = 90

10 x 10 = 100

//Write a program to find factorial of number enterd through keyboard

**package** loops;

**import** java.util.Scanner;

**public** **class** fact {

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

System.***out***.println("enter the number to get factorial");

**int** n;

**int** i=1;

Scanner sc=**new** Scanner(System.***in***);

n=sc.nextInt();

**while**(n>0)

{

i=i\*n;

n=n-1;

}

System.***out***.println("Factorial = "+i );

}

}

Output:

enter the number to get factorial

5

Factorial = 120

//Write a program to find the value of one number raised to the power of another

**package** loops;

**import** java.util.Scanner;

**public** **class** power {

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

**int** a;

System.***out***.println("enter value of a");

Scanner sc=**new** Scanner(System.***in***);

a=sc.nextInt();

System.***out***.println("enter value of b");

Scanner sc1=**new** Scanner(System.***in***);

**int** b=sc1.nextInt();

**int** m=a,n=b;

**while**(n>1)

{

m=m\*a;

n--;

}

System.***out***.println(m);

// **TODO** Auto-generated method stub

}

}

Output :

enter value of a

5

enter value of b

2

25

//Write a program to reverse the number

**package** loops;

**import** java.util.Scanner;

**public** **class** reverse {

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

**int** n;

**int** r;

//int reverse=0;

System.***out***.println("enter number to be reversed");

Scanner sc=**new** Scanner(System.***in***);

n=sc.nextInt();

**while**(n>0)

{

r=n%10;

// reverse=reverse\*10+r;

n=n/10;

System.***out***.print(r);

}

}

}

Output

enter number to be reversed

34564

46543

//Write a program that reads a set of integer,and then prints

//the sum of even and odd integers

**package** loops;

**import** java.util.Scanner;

**public** **class** oddeven {

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

Scanner sc=**new** Scanner(System.***in***);

**int** number;

**int** number2;

**int** even=0;

**int** odd=0;

System.***out***.println("enter the range from"); // **TODO** Auto-generated method stub

number=sc.nextInt();

System.***out***.println("to");

number2=sc.nextInt();

**for**(**int** i=number;i<=number2;i++)

**if**(number%2==0)

{

even=even+number;

}

**else**

{

odd=odd+number;

}

System.***out***.println(even);

System.***out***.println(odd);

}

}

//Write a program to check whether the number is prime or not

**package** loops;

**import** java.util.Scanner;

**public** **class** prime {

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

Scanner sc=**new** Scanner(System.***in***);

**int** number;

System.***out***.println("enter the positive integer");

number=sc.nextInt();

**boolean** flag=**true**;

**for**(**int** i=2;i<number;i++)

{

**if**(number%i==0)

{

flag=**false**;

**break**;

}

}

**if**(flag && number>1)

{

System.***out***.println("number is prime");

}

**else**

{

System.***out***.println("number is not prime");

}

}

}

Output1:

enter the positive integer

5

number is prime

output:

enter the positive integer

8

number is not prime

//Write a program to find a hcf of give two numbers

**package** loops;

**import** java.util.Scanner;

**public** **class** hcf {

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

Scanner sc=**new** Scanner(System.***in***);

**int** dividend,divisor;

**int** reminder,hcf=0;

System.***out***.println("Enter the first number");

dividend=sc.nextInt();

System.***out***.println("Enter the second number");

divisor=sc.nextInt();

**do**

{

reminder=dividend%divisor;

**if**(reminder==0)

{

hcf=divisor;

}

**else**

{

dividend=divisor;

divisor=reminder;

}

}**while**(reminder!=0);

System.***out***.println("hcf: "+hcf);

// **TODO** Auto-generated method stub

}

}

Output:

Enter the first number

88

Enter the second number

56

hcf: 8

//Write a do while loop that asks the user to enter two numbers.The numbers should be

//added and the sum displayed.The loop should ask the user to perform the oeration again.

//If,so,the loop should repeat, otherwise it should terminate

**package** loops;

**import** java.util.Scanner;

**public** **class** doloop {

**public** **static** **void** main(String[] args)

{

**char** ch;

Scanner sc=**new** Scanner(System.***in***);

**do**

{

System.***out***.println("enter a");

**int** a;

Scanner sc1=**new** Scanner(System.***in***);

a=sc1.nextInt();

System.***out***.println("enter b");

**int** b;

Scanner sc2=**new** Scanner(System.***in***);

b=sc2.nextInt();

**int** sum=a+b;

System.***out***.println(sum);

System.***out***.println("doyou want tocontinue if yes press y");

ch=sc.next().charAt(0);

}

**while**(ch=='y');

}

}

Output:

enter a

5

enter b

5

10

doyou want tocontinue if yes press y

y

enter a

//Write a program to check whether a given number is positive ,negative,or zero

**package** loops;

**import** java.util.Scanner;

**public** **class** positive {

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

**char** ch;

**do**

{

System.***out***.println("enter");

**int** num;

Scanner sc=**new** Scanner(System.***in***);

num=sc.nextInt();

**if**(num>0)

{

System.***out***.println("positive");

}

**else** **if**(num<0)

{

System.***out***.println("negt");

}

**else** **if**(num==0)

{

System.***out***.println("zero");

}

// **TODO** Auto-generated method stub

System.***out***.println("continue y");

ch=sc.next().charAt(0);

}

**while**(ch=='y');

}

}

Output:

enter

5

positive

continue y

y

enter

-5

negt

continue y

y

enter

0

zero

continue y

//Write a program to enter the numbers till user wants and at the end the program should display

//the largest and smallest number created

**package** loops;

**import** java.util.Scanner;

**public** **class** largesmall {

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

Scanner sc=**new** Scanner(System.***in***);

**int** number;

**int** max=Integer.***MIN\_VALUE***;

**int** min=Integer.***MAX\_VALUE***;

**char** choice;

**do**

{

System.***out***.println("enter the number");

number=sc.nextInt();

**if**(number>max)

{

max=number;

}

**if**(number<min)

{

min=number;

}

System.***out***.println("do you wnt to continue if yes press y");

choice=sc.next().charAt(0);

}**while**(choice=='y');

System.***out***.println("larg num = "+max);

System.***out***.println("min num = "+min);

}

// **TODO** Auto-generated method stub

}

Output:

enter the number

5

do you wnt to continue if yes press y

y

enter the number

7

do you wnt to continue if yes press y

y

enter the number

9

do you wnt to continue if yes press y

n

larg num = 9

min num = 5