1. Write a program to print table of any entered number using loop.

**Ans-**

package Assignment2;

import java.util.Scanner;

class First

{

public static void main(String args[])

{

int a,b,result=0;

Scanner ss = new Scanner(System.in);

System.out.println("Enter number = ");

a = ss.nextInt();

for(b=1;b<=10;b++)

{

result = a \* b;

System.out.println(a+ " X " +b+ " = "+result);

}

}

}

**o/p-**

Enter number =

8

8 X 1 = 8

8 X 2 = 16

8 X 3 = 24

8 X 4 = 32

8 X 5 = 40

8 X 6 = 48

8 X 7 = 56

8 X 8 = 64

8 X 9 = 72

8 X 10 = 80

2. Write a program to reverse a given number.

**Ans-**

package Assignment2;

import java.util.Scanner;

class Second

{

public static void main(String args[])

{

int a,remainder,sum=0;

Scanner ss = new Scanner(System.in);

System.out.println("Enter number = ");

//a is user input

a = ss.nextInt();

while(a!=0)

{

remainder = a % 10;

sum = (sum \* 10) + remainder;

a = a/10;

}

System.out.println("Reverse number = "+sum);

}

}

**o/p-**

Enter number =

8777

Reverse number = 7778

3. Program to check whether number is prime or not.

**Ans-**

package Assignment2;

import java.util.Scanner;

class Third

{

public static void main(String args[])

{

int a,num,temp;

boolean status = true;

Scanner ss = new Scanner(System.in);

System.out.println("Enter the number to check");

a = ss.nextInt();

for(int i=2;i<=a/2;i++)

{

temp = a%i;

if(temp==0)

{

status = false;

break;

}

}

if(status)

System.out.println(a+ " Is prime number ");

else

System.out.println(a+ " Is not prime number ");

}

}

**o/p-**

Enter the number to check

7

7 Is prime number

4. Calculate series : 12+22+32+42+.........+n2

**Ans-**

package Assignment2;

import java.util.Scanner;

class Fourth

{

public static void main(String args[])

{

int a;

Scanner ss = new Scanner(System.in);

System.out.println("Enter the value of n");

a = ss.nextInt();

System.out.println(" ");

int sum=12;

System.out.print(sum+ " + ");

for(int i=0;i<=a;i++)

{

sum=sum+10;

System.out.print(sum + " + ");

}

}

}

**o/p-**

Enter the value of n

5

12 + 22 + 32 + 42 + 52

5. Print all prime numbers between two given numbers. [ break continue ]

Ans-

package Assignment2;

import java.util.Scanner;

class Fifth

{

public static void main(String[] args) {

int low = 20, high = 50;

while (low < high) {

boolean flag = false;

for(int i = 2; i <= low/2; ++i) {

// condition for nonprime number

if(low % i == 0) {

flag = true;

break;

}

}

if (!flag && low != 0 && low != 1)

System.out.print(low + " ");

++low;

}

}

}

**o/p-**

23 29 31 37 41 43 47

6. Program to show sum and average of 10 element array. Accept array elements from user.

**Ans-**

package Assignment2;

import java.util.Scanner;

class Six

{

public static void main(String args[])

{

int a,b,sum=0;

float average;

Scanner ss = new Scanner(System.in);

System.out.println("Enter array elements");

a = ss.nextInt();

int s[] = new int[a];

System.out.println("Enter the elements in array:");

for(int i=0; i<a; i++)

{

s[i] = ss.nextInt();

sum = sum + s[i];

}

System.out.println("sum"+sum);

average=(float)sum/a;

System.out.println("Average"+average);

}

}

**o/p-**

Enter array elements

5

Enter the elements in array:

2

2

2

2

2

sum10

Average2.0

7. Sort a ten element array in descending order.

**Ans-**

package Assignment2;

import java.util.Scanner;

class Seven

{

public static void main(String[] args)

{

int a, temp;

Scanner scan = new Scanner(System.in);

System.out.print("Enter number of elements you want in the array: ");

a = scan.nextInt();

int num[] = new int[a];

System.out.println("Enter array elements:");

for (int i = 0; i < a; i++)

{

num[i] = scan.nextInt();

}

for (int i = 0; i < a; i++)

{

for (int j = i + 1; j < a; j++) {

if (num[i] > num[j])

{

temp = num[i];

num[i] = num[j];

num[j] = temp;

}

}

}

System.out.print("Array Elements in Ascending Order: ");

for (int i = 0; i < a - 1; i++)

{

System.out.print(num[i] + ", ");

}

System.out.print(num[a - 1]);

}

}

**o/p-**

Enter number of elements you want in the array:

5

Enter array elements:

2

3

1

9

0

Array Elements in Ascending Order: 0, 1, 2, 3, 9

8. Write a program to reverse the array elements.

Ans-

package Assignment2;

import java.util.Scanner;

class Eight

{

public static void main(String args[])

{

int a;

Scanner ss = new Scanner(System.in);

System.out.println("Enter no of elements");

a = ss.nextInt();

int num[] = new int[a];

System.out.println("Enter elements");

for(int i=0; i<a; i++)

{

num[i] = ss.nextInt();

}

System.out.println("-==--=Output-=--");

for(int i:num)

{

System.out.print(i);

}

System.out.println(" ");

//To reverse array elements

for(int i=num.length-1; i>=0; i--)

{

System.out.print(num[i]+" ");

}

System.out.println(" ");

}

}

**o/p-**

Enter no of elements

10

Enter elements

1 2 3 4 5 6 7 8 9 10

-==--=Output-=--

1 2 3 4 5 6 7 8 9 10

-==--=Reverse elements-=--

10 9 8 7 6 5 4 3 2 1

9. Write a program to search an element in the array.

Ans-

package Assignment2;

import java.util.Scanner;

class Nine

{

public static void main(String args[])

{

int a,b,search;

Scanner ss = new Scanner(System.in);

System.out.println("Enter the value of n");

a = ss.nextInt();

int num[] = new int[a];

System.out.print("Enter elements");

for(int i=0; i<a; i++)

{

num[i] = ss.nextInt();

}

System.out.println("=====Output-====");

for(int i:num)

{

System.out.print(i+ " ");

}

System.out.println(" ");

//to take user i/p to search an elements

System.out.println("Enter value to find=");

search = ss.nextInt();

//to check whether the no is availbale or not

for(int i=0; i<a; i++)

{

if (num[i] == search)

{

System.out.println(search + "Is present");

break;

}

if(i==a)

{

System.out.println(search + "Is not present");

}

}

}

}

**o/p-**

Enter the value of n

5

Enter elements1 2 3 4 5

=====Output-====

1 2 3 4 5

Enter value to find=

3

3 Is present

10. Write the program to find the sum of even elements and sum of odd elements present in the array of integer type.

**Ans-**

package Assignment2;

import java.util.Scanner;

class Ten

{

public static void main(String args[])

{

int a,even=0,odd=0;

Scanner ss = new Scanner(System.in);

System.out.println("Enter the value of n");

a = ss.nextInt();

int num[] = new int[a];

System.out.print("Enter elements");

for(int i=0; i<a; i++)

{

num[i] = ss.nextInt();

}

System.out.println("=====Output-====");

for(int i:num)

{

System.out.print(i+ " ");

}

System.out.println(" ");

//to find even odd

for(int i=0; i<num.length;i++)

{

if(num[i] % 2==0)

{

System.out.println("Number is even" +num[i]);

even = even+num[i];

}

else

{

System.out.println("Number is odd"+num[i]);

odd = odd+num[i];

}

}

System.out.println("even== "+even);

System.out.println("odd== "+odd);

}

}

**o/p-**

Enter the value of n

5

Enter elements1 2 3 4 5

=====Output-====

1 2 3 4 5

Number is odd1

Number is even2

Number is odd3

Number is even4

Number is odd5

even== 6

odd== 9