**Loops**

**1. Write a program to print “Bright IT Career” ten times using for loop**

package maccess;

public class Loop1 {

public static void main(String[] args) {

for (int i=0;i<10;i++) {

System.out.println("Bright IT Career");

}

}

}

**2. Write a java program to print 1 to 20 numbers using the while loop.**

package TIHLoops;

public class Print1to20 {

public static void main(String[] args) {

for(int number=1; number<=20; number++){

System.out.println(number);

}

}

}

**3. Program to equal operator and not equal operators**

public class Main {

public static void main(String[] args) {

int x = 4;

int y = 4;

if (x != y) {

System.out.println("x and y are not equal.");

} else {

System.out.println("x and y are equal.");

}

}

}

**4. Write a program to print the odd and even numbers.**

public class OddEvenInArrayExample{

public static void main(String args[]){

int a[]={1,2,5,6,3,2};

System.out.println("Odd Numbers:");

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

if(a[i]%2!=0){

System.out.println(a[i]);

}

}

System.out.println("Even Numbers:");

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

if(a[i]%2==0){

System.out.println(a[i]);

}

}

}}

**5. Write a program to print largest number among three numbers.**

import java.util.Scanner;

public class LargestNumberExample1

{

public static void main(String[] args)

{

int a, b, c, largest, temp;

//object of the Scanner class

Scanner sc = new Scanner(System.in);

//reading input from the user

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

a = sc.nextInt();

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

b = sc.nextInt();

System.out.println("Enter the third number:");

c = sc.nextInt();

//comparing a and b and storing the largest number in a temp variable

temp=a>b?a:b;

//comparing the temp variable with c and storing the result in the variable

largest=c>temp?c:temp;

//prints the largest number

System.out.println("The largest number is: "+largest);

}

}

**6. Write a program to print even number between 10 and 100 using while**

public class DisplayEvenNumbersExample1

{

public static void main(String args[])

{

int number=100;

System.out.print("List of even numbers from 1 to "+number+": ");

for (int i=1; i<=number; i++)

{

//logic to check if the number is even or not

//if i%2 is equal to zero, the number is even

if (i%2==0)

{

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

}

}

}

}

**7. Write a program to print 1 to 10 using the do-while loop statement.**

public class DoWhileExample {

public static void main(String[] args) {

int i=1;

do{

System.out.println(i);

i++;

}while(i<=10);

}

}

**8. Write a program to find Armstrong number or not**

import java.util.Scanner;

import java.lang.Math;

public class ArmstsrongNumberExample2

{

//function to check if the number is Armstrong or not

static boolean isArmstrong(int n)

{

int temp, digits=0, last=0, sum=0;

//assigning n into a temp variable

temp=n;

//loop execute until the condition becomes false

while(temp>0)

{

temp = temp/10;

digits++;

}

temp = n;

while(temp>0)

{

//determines the last digit from the number

last = temp % 10;

//calculates the power of a number up to digit times and add the resultant to the sum variable

sum += (Math.pow(last, digits));

//removes the last digit

temp = temp/10;

}

//compares the sum with n

if(n==sum)

//returns if sum and n are equal

return true;

//returns false if sum and n are not equal

else return false;

}

//driver code

public static void main(String args[])

{

int num;

Scanner sc= new Scanner(System.in);

System.out.print("Enter the number: ");

//reads the limit from the user

num=sc.nextInt();

if(isArmstrong(num))

{

System.out.print("Armstrong ");

}

else

{

System.out.print("Not Armstrong ");

}

} }

**9. Write a program to find the prime or not.**

public class PrimeExample{

public static void main(String args[]){

int i,m=0,flag=0;

int n=3;//it is the number to be checked

m=n/2;

if(n==0||n==1){

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

}else{

for(i=2;i<=m;i++){

if(n%i==0){

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

flag=1;

break;

}

}

if(flag==0) { System.out.println(n+" is prime number"); }

}//end of else

}

}

**10. Write a program to palindrome or not.**

class PalindromeExample{

public static void main(String args[]){

int r,sum=0,temp;

int n=454;//It is the number variable to be checked for palindrome

temp=n;

while(n>0){

r=n%10; //getting remainder

sum=(sum\*10)+r;

n=n/10;

}

if(temp==sum)

System.out.println("palindrome number ");

else

System.out.println("not palindrome");

}

}

**11. Program to check whether a number is EVEN or ODD using switch**

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner SN = new Scanner(System.in);

int number = 0;

System.out.printf("Enter a positive integer number: ");

number = SN.nextInt();

switch (number % 2) {

case 0:

System.out.printf("%d is an EVEN number.\n", number);

break;

case 1:

System.out.printf("%d is an ODD number.\n", number);

break;

}

}

}

**12. Print gender (Male/Female) program according to given M/F using switch**

import java.util.\*;

public class Loop12 {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

System.out.println("Enter m or f");

char c=s.next().charAt(0);

switch(c){

case 'm':

System.out.println("Gender is male");

break;

case 'f':

System.out.println("Gender is female");

break;

}

s.close();

}

}

**13. Program for multiple if else statement(Largest number in 10,20 and 30)**

public class Largest {

public static void main(String[] args) {

double n1 = 10, n2 = 20, n3 = 30;

if( n1 >= n2 && n1 >= n3)

System.out.println(n1 + " is the largest number.");

else if (n2 >= n1 && n2 >= n3)

System.out.println(n2 + " is the largest number.");

else

System.out.println(n3 + " is the largest number.");

}

}