# Java Assignment-2

1. **Print name of the month using switch case for the number entered.**

import java.util.Scanner;

class months

{

public static void main(String[] args)

{

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

Scanner s=new Scanner(System.in);

int m=s.nextInt();

switch(m)

{

case 1:

System.out.println("January");

break;

case 2:

System.out.println("February");

break;

case 3:

System.out.println("March");

break;

case 4:

System.out.println("April");

break;

case 5:

System.out.println("May");

break;

case 6:

System.out.println("June");

break;

case 7:

System.out.println("July");

break;

case 8:

System.out.println("August");

break;

case 9:

System.out.println("September");

break;

case 10:

System.out.println("October");

break;

case 11:

System.out.println("November");

break;

case 12:

System.out.println("December");

break;

default:

System.out.println("Invalid month");

}

}

}

1. **Program to check the number is even or odd.**

import java.util.Scanner;

class Odd\_even

{

public static void main(String[] args)

{

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

Scanner s=new Scanner(System.in);

int num=s.nextInt();

int r=num%2;

if(r==0)

{

System.out.println("Number is even");

}

else

{

System.out.println("Number is odd");

}

}

}

1. **Program to find the reverse of a number.**

import java.util.Scanner;

class Reverse

{

public static void main(String[] args)

{

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

Scanner s=new Scanner(System.in);

int n=s.nextInt();

int temp,num,r1;

int r=0;

temp=n;

num=n;

for(int i=1;num>0;i++)

{

r1=num%10;

r=r\*10+r1;

num=num/10;

}

System.out.println(r);

}

}

1. **Program to find a number is Palindrom or not.**

Palindrom without loop:-

import java.util.Scanner;

class Palindrom\_without\_loop

{

public static void main(String[] args)

{

Scanner s=new Scanner(System.in);

System.out.println("Enter a 3 digit no.");

int n=s.nextInt();

int temp;

temp=n;

int r=0;

int r1,r2,r3;

r1=n%10;

r= r\*10+r1;

n=n/10;

r2=n%10;

r=r\*10+r2;

r3=n/10;

r=r\*10+r3;

if(r==temp)

{

System.out.println("Number is a palindrom");

}

else

{

System.out.println("Number is not a palindrom");

}

}

}

Palindrom with loop:-

import java.util.Scanner;

class Palindrom\_with\_loop

{

public static void main(String[] args)

{

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

Scanner s=new Scanner(System.in);

int n=s.nextInt();

int temp,num,r1;

int r=0;

temp=n;

num=n;

for(int i=1;num>0;i++)

{

r1=num%10;

r=r\*10+r1;

num=num/10;

//System.out.println(r);

}

if(r==temp)

{

System.out.println("Number is a palindrom");

}

else

{

System.out.println("Number is not a palindrom");

}

}

}

1. **Program to find a number is armstrong number or not.**

import java.util.Scanner;

class Armstrong

{

public static void main(String[] args)

{

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

Scanner s=new Scanner(System.in);

int n=s.nextInt();

int temp,r11,r1,num;

int r=0;

temp=n;

num=n;

int count=0;

while(n>0)

{

n=n/10;

count++;

}

//count=n;

//System.out.println(count);

for(int i=1;num>0;i++)

{

r1=num%10;

r11=r1;

for(int j=2;j<=count;j++)

{r11=r11\*r1; }

r=r+r11;

num=num/10;

//System.out.println(r);

}

if(r==temp)

{

System.out.println("Number is an Armstrong");

}

else

{

System.out.println("Number is not an Armstrong");

}

}

}

1. **Program to print total number of days in the month of the year and month entered by user.**

import java.util.Scanner;

class Month\_days

{

public static void main(String[] args)

{

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

Scanner s=new Scanner(System.in);

int y=s.nextInt();

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

int m=s.nextInt();

if(m==1)

{

System.out.println("January has 31 days");

}

else if(m==3)

{

System.out.println("March has 31 days");

}

else if(m==5)

{

System.out.println("May has 31 days");

}

else if(m==7)

{

System.out.println("July has 31 days");

}

else if(m==8)

{

System.out.println("August has 31 days");

}

else if(m==10)

{

System.out.println("October has 31 days");

}

else if(m==12)

{

System.out.println("December has 31 days");

}

else if(m==2)

{

if(((y%4==0) && (y%100) != 0) ||((y%4==0)&&(y%100==0)&&(y%400==0)))

{

System.out.println("February has 29 days");

}

else

{

System.out.println("February has 28 days");

}

}

else if(m==4)

{

System.out.println("April has 30 days");

}

else if(m==6)

{

System.out.println("June has 30 days");

}

else if(m==9)

{

System.out.println("September has 30 days");

}

else if(m==11)

{

System.out.println("November has 30 days");

}

else

{

System.out.println("Invalid data");

}

}

}