1.package day2\_assignment;

public class Daimond\_pattern {

public static void main(String[] args) {

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

for(int i=1;i<=5;i++) {

for(int j=1;j<=5-i;j++) {

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

}

for(int k=1;k<=(2\*i-1);k++) {

System.***out***.print("\*");

}

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

}

for(int i=5-1;i>=1;i--) {

for(int j=1;j<=5-i;j++) {

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

}

for(int k=1;k<=(2\*i-1);k++) {

System.***out***.print("\*");

}

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

}

}

}

2. package day2\_assignment;

public class Even\_numbers {

public static void main(String[] args) {

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

System.***out***.println("Even numbers from 2 to 50:");

for(int i=2;i<=50;i++) {

if(i %2==0) {

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

}

}

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

}

}

3. package day2\_assignment;

import java.util.Scanner;

public class Factorial\_number {

public static void main(String[] args) {

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

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

System.***out***.println("Enter non negtive integer: ");

int num=scr.nextInt();

if(num<0) {

System.***out***.println("Factorial is not defined for negative number");

}

else {

long fac=1;

for(int i=1;i<=num;i++) {

fac\*=i;

}

System.***out***.println("Factorial of "+ num +" is "+ fac);

}

}

}

4. package day2\_assignment;

import java.util.Scanner;

public class Fibonacci {

public static void main(String[] args) {

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

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

System.***out***.println("Enter any number:");

int count=sc.nextInt();

int n1=0,n2=1;

System.***out***.print("Fibonacci Series: ");

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

System.***out***.print(n1+" ");

int n3=n2+n1;

n1=n2;

n2=n3;

}

}

}

5.package day2\_assignment;

public class Multiplication\_of\_17 {

public static void main(String[] args) {

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

int num=17;

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

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

}

}

}

6. package day2\_assignment;

import java.util.Scanner;

public class No\_of\_digits {

public static void main(String[] args) {

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

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

System.***out***.println("Enter any number:");

int number=sc.nextInt();

int count=0;

if(number==0) {

count=1;

}

else {

for(;number!=0;number/=10,++count);

}

System.***out***.println("Number of digits: "+count);

}

}

7. package day2\_assignment;

import java.util.Scanner;

public class Palindrom {

public static void main(String[] args) {

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

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

System.***out***.println("Enter any number:");

int number=sc.nextInt();

int originalNumber=number;

int reverseNumber=0;

while(number!=0) {

int digit=number%10; //to get last digit

reverseNumber=reverseNumber\*10+digit;

number/=10;

}

if(originalNumber==reverseNumber) {

System.***out***.println("Number is a palindrome");

}

else

System.***out***.println("Number is not palinfrome");

}

}

8. package day2\_assignment;

import java.util.Scanner;

public class Prime\_number {

public static void main(String[] args) {

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

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

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

int num=sc.nextInt();

if(num % 2 == 0) {

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

}

else

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

}

}

9. package day2\_assignment;

public class Pyramid\_pattern {

public static void main(String[] args) {

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

for(int i=1;i<=5;i++) {

for(int j=1;j<=5-i;j++) {

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

}

for(int k=1;k<=(2\*i-1);k++) {

System.***out***.print("\*");

}

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

}

}

}

10. package day2\_assignment;

public class Reverse\_of\_numbers {

public static void main(String[] args) {

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

for(int i=20;i>=1;i--) {

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

}

}

}

11. package day2\_assignment;

public class Square\_of\_numbers {

public static void main(String[] args) {

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

System.***out***.println("Square of numbers from 1 to 10:");

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

int square =i\*i;

System.***out***.println("The square of "+i+" is "+square);

}

}

}

12. package day2\_assignment;

import java.util.Scanner;

public class Sum\_of\_num {

public static void main(String[] args) {

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

System.***out***.print("Enter a number: ");

int number = scanner.nextInt();

int sum = 0;

int tempNumber = number;

while (tempNumber != 0) {

int digit = tempNumber % 10; // Extract the last digit using the modulo operator

sum += digit; // Add the extracted digit to the sum

tempNumber /= 10; // Remove the last digit by integer division

}

System.***out***.println("The sum of the digits of " + number + " is: " + sum); // Print the result

}

}

13. package day2\_assignment;

public class Sum\_of\_numbers {

public static void main(String[] args) {

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

int sum=0;

int n=50;

for(int i=1;i<=n;i++) {

sum+=i;

}

System.***out***.println("the sum of First "+n+" natural numbers: "+sum);

}

}