1)- Take an input string like-

String input = "Hello JavaTpoint";

You need to write the program to reverse the String?

public class Stringreverse

{

public static void main(String[] args) {

String input = "Hello Rajesh";

String ans = "";

int l = input.length();

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

ans = ans + input.charAt(l-i-1);

}

System.out.println(ans);

}

}

2->Write a program to print the prime number between 1 to 20.

import java.util.Arrays;

public class Prime

{

public static void main(String[] args) {

Boolean[] boolArray = new Boolean[21];

Arrays.fill(boolArray, Boolean.TRUE);

for(int i=2;i\*i<=20;i++){

if(boolArray[i]==true){

for(int j=i+i;j<=20;j=j+i){

boolArray[j]=false;

}

}

}

for(int i=2;i<=20;i++){

if(boolArray[i]==true){

System.out.println(i);

}

}

}

}

3-> Write a program to print the table of 2 to 5 numbers.

public class Table

{

public static void main(String[] args) {

for(int i=2;i<=5;i++){

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

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

}

System.out.println("");

}

}

}

4-> Write a program to print the even and odd numbers between 1 to 20.

public class Evenodd{

public static void main(String[] args) {

System.out.print("Printing Odd Numbers: ");

for(int i=1;i<=20;i=i+2){

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

}

System.out.println("");

System.out.print("Printing Even Numbers: ");

for(int i=2;i<=20;i=i+2){

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

}

}

}

5-> Write a program to print the division of Student marks based on percentage.

Like: Dictation, first division, second division, third division, fail.

Solve the program by if-else and switch statements.

public class Student{

public static void main(String[] args) {

int score = 96;

if(score < 0 || score > 100)

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

switch(score/10) {

case 10: System.out.println("Distinction");

break;

case 9: System.out.println("First Division");

break;

case 8: System.out.println("Second Division");

break;

case 7: System.out.println("Third Division");

break;

default: System.out.println("Fail");

break;

}

}

}

6-> Write a program for factorial 8;

public class Fact{

public static void main(String[] args) {

int fact = 1;

int n = 8;

while(n!=0){

fact\*=n;

n--;

}

System.out.println(fact);

}

}

7-> Write a program to swap the a and b numbers. Where int a = 5; int b = 10;

public class Swap{

public static void main(String[] args) {

int a = 5;

int b = 10;

a = a+b;

b = a-b;

a = a-b;

System.out.println(a+","+b);

}

}

8-> Write a program to print the given number is leap year or not. Where your

number is int year = 1990;

public class Leapyear{

public static void main(String[] args) {

int year =1990;

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

System.out.println("It's a Leap Year");

}

else{

System.out.println("It's not a Leap Year");

}

}

}

9-> Write a program to Print a solid Diamond Star Pattern.

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public class Solid{

public static void main(String[] args){

for(int i=5,j=1;i>0;i--,j++){

int g = i;

while(g!=0){

g--;

System.out.print(" ");

}

for(int k=0;k<j;k++){

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

}

System.out.println("");

}

for(int k=0;k<6;k++){

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

}

System.out.println("");

for(int i=1,j=5;i<6;i++,j--){

int g = i;

while(g!=0){

g--;

System.out.print(" ");

}

for(int k=0;k<j;k++){

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

}

System.out.println("");

}

}

}

10->Write a Program to Print the Pant's style Star Pattern.

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public class Up{

public static void main(String[] args){

int n = 3;

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

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

}

System.out.println("");

for(int g=(n%2==1)?1:2;(n-g)/2!=0;g=g+2){

int s = (n-g)/2;

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

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

}

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

System.out.print(" ");

}

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

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

}

System.out.println("");

}

}

}

11-> Write a Program to Print the Inverted Pant's Shape Star Pattern.

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public class Down{

public static void main(String[] args){

int n = 3;

for(int g=n-2;g>=1;g=g-2){

int s = (n-g)/2;

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

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

}

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

System.out.print(" ");

}

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

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

}

System.out.println("");

}

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

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

}

System.out.println("");

}

}

12-> Find out the 3rd max element from the array with a single loop.

int[] arr = {22,100,44,11,22,100,77,44,11};

public class Third{

public static void main(String[] args){

int arr[] = {22,100,44,11,22,100,77,44,11};

int fmax;

int smax;

int tmax;

if(arr[0]>arr[1]){

if(arr[0]>arr[2]){

fmax = arr[0];

smax = (arr[1]>arr[2])?arr[1]:arr[2];

tmax = (arr[1]>arr[2])?arr[2]:arr[1];

}

else{

fmax = arr[2];

smax = arr[0];

tmax = arr[1];

}

}

else{

if(arr[1]>arr[2]){

fmax = arr[1];

smax = (arr[0]>arr[2])?arr[0]:arr[2];

tmax = (arr[0]>arr[2])?arr[2]:arr[0];

}

else{

fmax = arr[2];

smax = arr[1];

tmax = arr[0];

}

}

for(int i=3;i<arr.length;i++){

if(arr[i]>fmax){

tmax = smax;

smax = fmax;

fmax = arr[i];

}

else if(arr[i]>smax && arr[i]!=fmax){

tmax = smax;

smax = arr[i];

}

else if(arr[i]>tmax && arr[i]!=smax && arr[i]!=fmax){

tmax = arr[i];

}

}

System.out.println(tmax);

}

}