1. **Write a program to implement alphabets A B C D E F G H using pattern programming language.**

**Ans**

public class Demo {

public static void main(String[] args) {

int n = 11;

// for A

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

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

if (i == 0 && j > 0 && j < n - 1 || j == 0 && i > 0 || j == n - 1 && i > 0 || i == (n - 1) / 2) {

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

}

else {

System.out.print(" ");

}

}

System.out.println();

}

// for B

System.out.println();

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

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

if (i == 0 && j < n - 1 || j == 0 || i == (n - 1) / 2 && j < n - 1

|| i == n - 1 && j < n - 1 || j == n - 1 && i > 0 && i < n - 1 && i != (n - 1) / 2) {

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

}

else {

System.out.print(" ");

}

}

System.out.println();

}

// for c

System.out.println();

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

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

if (i == 0 && j > 0|| j == 0 && i>0 &&i<n-1 || i == n - 1 && j >0 ) {

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

}

else {

System.out.print(" ");

}

}

System.out.println();

}

// for D

System.out.println();

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

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

if (i == 0 && j < n - 1 || j == 0 ||

i == n - 1 && j < n - 1 ||

j == n - 1 && i > 0 && i < n - 1 ) {

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

}

else {

System.out.print(" ");

}

}

System.out.println();

}

// for E

System.out.println();

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

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

if (i == 0 || j==0 ||i==(n-1)/2||i==n-1) {

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

}

else {

System.out.print(" ");

}

}

System.out.println();

}

// for F

System.out.println();

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

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

if (i == 0 || j==0 ||i==(n-1)/2) {

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

}

else {

System.out.print(" ");

}

}

System.out.println();

}

// for G

System.out.println();

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

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

if (i == 0 && j > 0 || j == 0 && i > 0 && i < n - 1 ||

i == (n - 1) / 2 && j >= (n - 1) / 2 && j < n - 1

|| j == n - 1 && i > (n - 1) / 2&& i<n-1|| i==n-1&& j>0&&j<n-1) {

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

}

else {

System.out.print(" ");

}

}

System.out.println();

}

// for H

System.out.println();

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

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

if (j == 0 || i == (n - 1) / 2

|| j == n - 1) {

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

}

else {

System.out.print(" ");

}

}

System.out.println();

}

}

}

1. **Write a program to implement triangle using pattern programming.**

**Ans**

public class Demo {

public static void main(String[] args) {

int n = 11;

// for A

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

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

if (i==(n-1)/2|| i>=0 && j==((n-1)/2-i)||i>=0&&j==((n-1)/2+i)) {

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

}

else {

System.out.print(" ");

}

}

System.out.println();

}

}

}

1. **Write a program to print home button .**

**Ans**

public class Demo {

public static void main(String[] args) {

int n = 14;

// for A

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

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

if ( i >= 0 && j <= ((n - 1) / 2 - i) || i >= 0 && j >= ((n - 1) / 2 + i)

|| i >= (n - 1) / 2 && j == 0|| i >= (n - 1) / 2 && j == n - 1||i==n-1) {

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

}

else {

System.out.print(" ");

}

}

System.out.println();

}

}

}

1. **Write a program to print PW SKILLS using pattern programming.**

**Ans**