**1. Write a python program to print following number pattern:**

**1**  
**2 2**  
**3 3 3**  
**4 4 4 4**  
**5 5 5 5 5**

**Code:**

**public class CharacterPattern  
{  
 public static void main(String[] args)   
 {  
 int n=5;**  
 **for(int i=1, p=1; i<=n; i++, p++){**  
 **for(int j=1; j<=i; j++){**  
 **System.out.print(p+" ");**  
 **}**  
 **System.out.println();**  
 **}  
 }  
}**

**2. Write a python program to print following pattern:**

**5**  
**4 4**  
**3 3 3**  
**2 2 2 2**  
**1 1 1 1 1**

**Code:**

**public class CharacterPattern  
{  
 public static void main(String[] args)   
 {  
 int n=5;**  
 **for(int i=1, p=5; i<=n; i++, p++){**  
 **for(int j=1; j<=i; j++){**  
 **System.out.print(p+" ");**  
 **}**  
 **System.out.println();**  
 **}  
 }  
}**

**3. Write a python code to print following number pattern:**

**0**  
**2 2**  
**4 4 4**  
**6 6 6 6**  
**8 8 8 8 8**

**Code:**

**public class CharacterPattern  
{  
 public static void main(String[] args)   
 {  
 int n=5;**  
 **for(int i=1, p=5; i<=n; i++, p+=2){**  
 **for(int j=1; j<=i; j++){**  
 **System.out.print(p+" ");**  
 **}**  
 **System.out.println();**  
 **}  
 }  
}**

**4. Write a python code to print following pattern:**

**1**  
**2 2**  
**1 1 1**  
**2 2 2 2**  
**1 1 1 1 1**

**Code:**

**public class CharacterPattern   
{  
 public static void main(String[] args)  
 {   
 int n=5;**  **for(int i=1; i<=n; i++){**  **for(int j=1; j<=i; j++){**  **if(i%2==0)**  **System.out.print("2 ");  
 else**  **System.out.print("1 ");**  **}**  **System.out.println();**  **}  
 }  
}**

**5. Write a python program to print following Dimond number pattern:**

**1**  
**2 2 2**  
**3 3 3 3 3**  
**4 4 4 4 4 4 4**  
**5 5 5 5 5 5 5 5 5**  
**6 6 6 6 6 6 6**  
**7 7 7 7 7**  
**8 8 8**  
**9**

**Code:**

**public class CharacterPattern  
{  
 public static void main(String[] args)  
 {**  **int n= 5,p=1;**  **for(int i=1; i<n; i++, p++){**  **for(int j=i; j<=n; j++){**  **System.out.print(" ");**  **}**  **for(int j=1; j<i; j++){**  **System.out.print(p +" ");**  **}**  **for(int j=1; j<=i; j++){**  **System.out.print(p +" ");**  **}**  **System.out.println();**  **}**  **for(int i=1; i<=n; i++, p++){**  **for(int j=1; j<=i; j++){**  **System.out.print(" ");**  **}**  **for(int j=i; j<n; j++){**  **System.out.print(p +" ");**  **}**  **for(int j=i; j<=n; j++){**  **System.out.print(p +" ");**  **}**  **System.out.println();**  **}  
 }  
}**

**6. Write a python program to print following diamond number pattern:**

**1**  
**2 2 2**  
**3 3 3 3 3**  
**4 4 4 4 4 4 4**  
**5 5 5 5 5 5 5 5 5**  
**4 4 4 4 4 4 4**  
**3 3 3 3 3**  
**2 2 2**  
**1**

**Code:**

**public class CharacterPattern  
{  
 public static void main(String[] args)   
 {**  
 **int n= 5;**  
 **for(int i=1, p= 1; i<=n; i++, p++){**  
 **for(int j=i; j<=n; j++){**  
 **System.out.print(" ");**  
 **}**  
 **for(int j=1; j<i; j++){**  
 **System.out.print(p +" ");**  
 **}**  
 **for(int j=1; j<=i; j++){**  
 **System.out.print(p +" ");**  
 **}**  
 **System.out.println();**  
 **}**  
 **for(int i=1, p=5; i<=n; i++, p--){**  
 **for(int j=1; j<=i; j++){**  
 **System.out.print(" ");**  
 **}**  
 **for(int j=i; j<n; j++){**  
 **System.out.print(p +" ");**  
 **}**  
 **for(int j=i; j<=n; j++){**  
 **System.out.print(p +" ");**  
 **}**  
 **System.out.println();**  
 **}  
 }**  
**}**

**7. Write a python program to print number pattern:**

**1**  
**1 2**  
**1 2 3**  
**1 2 3 4**  
**1 2 3 4 5**

**Code:**

**public class CharacterPattern  
{  
 public static void main(String[] args)   
 {**  
 **int n=5;  
 for(int i=1; i<=n; i++){  
 int p=1;  
 for(int j=1; j<=i; j++){  
 System.out.print(p++ +" ");  
 }  
 System.out.println();  
 }  
 }  
}**

**8. Write a python code to print following number pattern:**

**1 2 3 4 5**  
**1 2 3 4**  
**1 2 3**  
**1 2**  
**1**

**Code:**

**public class CharacterPattern  
{  
 public static void main(String[] args)   
 {  
 int n= 5;  
 for(int i=1; i<=n; i++){  
 int p =1;  
 for(int j=1; j<=i; j++){  
 System.out.print(" ");  
 }  
 for(int j=i; j<=n; j++){  
 System.out.print(p++ +" ");  
 }  
 System.out.println();  
 }  
 }  
}**

**9. Write a python code to print following number hill pattern:**

**1**  
**1 2 3**  
**1 2 3 4 5**  
**1 2 3 4 5 6 7**  
**1 2 3 4 5 6 7 8 9**

**Code:**

**public class CharacterPattern   
{   
 public static void main(String[] args)   
 {   
 int n= 5;   
 for(int i=1; i<=n; i++){   
 int p =1;   
 for(int j=i; j<=n; j++){   
 System.out.print(" ");   
 }   
 for(int j=1; j<i; j++){   
 System.out.print(p++ +" ");   
 }   
 for(int j=1; j<=i; j++){   
 System.out.print(p++ +" ");   
 }   
 System.out.println();   
 }   
 }   
}**

**10. Write a python code to print following number pattern :**

**5**  
**5 4**  
**5 4 3**  
**5 4 3 2**  
**5 4 3 2 1**

**Code:**

**public class CharacterPattern   
{  
 public static void main(String[] args)  
 {   
 int n=5;  
 for(int i=1; i<=n; i++){  
 int p=5;  
 for(int j=1; j<=i; j++){   
 System.out.print(p – +" ");  
 }  
 System.out.println();  
 }  
 }  
}**

**11. Write a python code to print following number pattern :**

**5 4 3 2 1**  
**4 3 2 1**  
**3 2 1**  
**2 1**  
**1**

**Code:**

**public class CharacterPattern  
{  
 public static void main(String[] args)   
 {  
 int n=5;  
 for(int i=1,k=n; i<=n;i++,k--){  
 int p=k;  
 for(int j=1; j<=i; j++){  
 System.out.print(" ");  
 }  
 for(int j=i; j<=n; j++){  
 System.out.print(p – +" ");  
 }  
 System.out.println();  
 }  
 }  
}**

**12. Write a python code to print hill pattern with numbers :**

**1**  
**1 2 1**  
**1 2 3 2 1**  
**1 2 3 4 3 2 1**  
**1 2 3 4 5 4 3 2 1**

**Code:**

**public class CharacterPattern  
{  
 public static void main(String[] args)   
 {  
 int n= 5;  
 for(int i=1; i<=n; i++){  
 int p =1;  
 for(int j=i; j<=n; j++){  
 System.out.print(" ");  
 }  
 for(int j=1; j<i; j++){  
 System.out.print(p++ +" ");  
 }  
 for(int j=1; j<=i; j++){  
 System.out.print(p – +" ");  
 }  
 System.out.println();  
 }  
 }  
}**

**13. Write a python code to print following number pattern :**

**1**  
**2 3**  
**4 5 6**  
**7 8 9 10**

**Code:**

**public class CharacterPattern  
{  
 public static void main(String[] args)   
 {  
 int n=4, p=1;**  
 **for(int i=1; i<=n; i++){**  
 **for(int j=1; j<=i; j++){**  
 **System.out.print(p++" ");**  
 **}**  
 **System.out.println();**  
 **}  
 }  
}**