

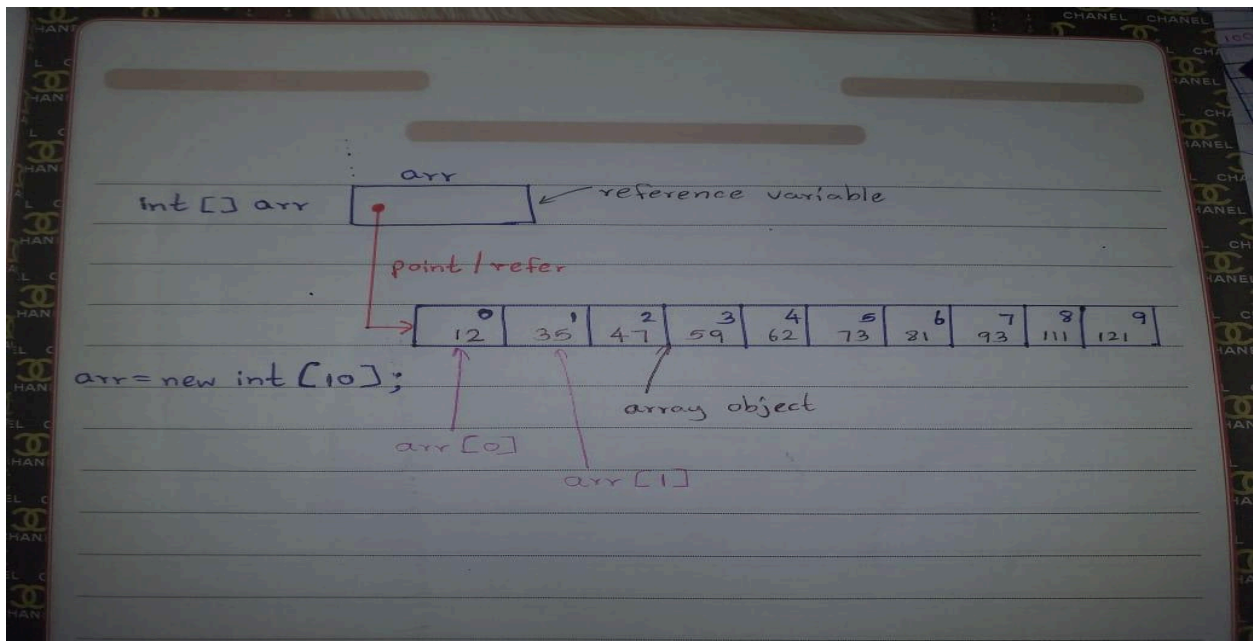
Assignment 07-prf Answers

```
01) i) import java.util.*;
class Example{
    public static void main(String args[]){
        Scanner input=new Scanner(System.in);
        int[] arr = new int[10];

        arr[0] = 12;
        arr[1] = 35;
        arr[2] = 47;
        arr[3] = 59;
        arr[4] = 62;
        arr[5] = 73;
        arr[6] = 81;
        arr[7] = 93;
        arr[8] = 111;
        arr[9] = 121;

    }
}
```

ii) ,iii)



```

iv) import java.util.*;
class Example{
    public static void main(String args[]){
        Scanner input=new Scanner(System.in);
        int[] arr = new int[10];

        arr[0] = 12;
        arr[1] = 35;
        arr[2] = 47;
        arr[3] = 59;
        arr[4] = 62;
        arr[5] = 73;
        arr[6] = 81;
        arr[7] = 93;
        arr[8] = 111;
        arr[9] = 121;

        System.out.println("arr[0] = " + arr[0]);
        System.out.println("arr[3] = " + arr[3]);
        System.out.println("arr[5] = " + arr[5]);

    }
}

```

02)import java.util.*;

```

class Example{
    public static void main(String args[]){
        Scanner input=new Scanner(System.in);
        double[] avg={85.66, 78, 67.33, 57.66, 81, 91, 53.66, 61.66, 74.33, 79.33};

        System.out.println("Average marks of 3rd student :"+avg[2]);

        System.out.println("Average marks of 7th student :"+avg[6]);

    }
}

```

05) i),ii) import java.util.*;

```

class Example{
    public static void main(String args[]){

        int[] marks={56, 81, 43, 69, 93, 54, 48, 47, 51, 79, 82, 96, 57, 61, 66};
        System.out.println("How many marks : "+marks.length);

    }
}

```

iii)

56
81
43
69
93

iv) import java.util.*;

```

class Example{
    public static void main(String args[]){

```

```

        int[] marks={56, 81, 43, 69, 93, 54, 48, 47, 51, 79, 82, 96, 57, 61, 66};
        for(int i=0; i<marks.length; i++){
            System.out.print(marks[i]+" ");
        }

    }
}

```

```

v) import java.util.*;
class Example{
    public static void main(String args[]){

        int[] marks={56, 81, 43, 69, 93, 54, 48, 47, 51, 79, 82, 96, 57, 61, 66};
        for(int i=10; i<15; i++){
            System.out.print(marks[i]+" ");
        }

    }
}

```

```

07) i),ii) import java.util.*;
class Example{
    public static void main(String args[]){

        char[] blockletters=new char[26];
        char A=65;
        System.out.print("[");
        for(int i=0;i<blockletters.length;i++){
            System.out.print(A+" ");
            A++;
        }
        System.out.println("\b\b]");

    }
}

```

```
}
```

```
iii)import java.util.*;
class Example{
    public static void main(String args[]){

        char[] blockLetters = new char[26];
        for (int i = 0; i < blockLetters.length; i++) {
            blockLetters[i] = (char) ('A' + i);
        }
        System.out.print("Block letters in even index: ");
        for (int i = 0; i < 26; i++) {
            if (i % 2 == 0) {
                System.out.print(blockLetters[i] + " ");
            }
        }
        System.out.println();
    }
}
```

```
1v) import java.util.*;
class Example{
    public static void main(String args[]){

        char[] blockLetters = new char[26];
        for (int i = 0; i < blockLetters.length; i++) {
            blockLetters[i] = (char) ('A' + i);
        }
        System.out.print("Block letters in even index: ");
        for (int i = 0; i < 26; i++) {
            if (i % 2 != 0) {
                System.out.print(blockLetters[i] + " ");
            }
        }
        System.out.println();
    }
}
```

```
v) import java.util.*;
```

```

class Example{
    public static void main(String args[]){

        char[] blockLetters = new char[26];
        for (int i = 0; i < 26; i++) {
            blockLetters[i] = (char) ('A' + i);
        }

        System.out.print("[ ");
        for (int i = 25; i >= 0; i--) {
            System.out.print(blockLetters[i]);
            if (i > 0) {
                System.out.print(", ");
            }
        }
        System.out.println("]");
    }
}

```

08) i),ii)import java.util.*;

```

class Example{
    public static void main(String args[]){

        int[] rainfallValues={2346, 1945, 2060, 1781, 2365, 1005, 1162, 1016, 1512, 2231, 1903,
12061, 1005, 1545,2156, 2037, 1583, 3668};
        System.out.println("Number of Districts : "+rainfallValues.length);

    }
}

```

iii) import java.util.*;

```

class Example{
    public static void main(String args[]){

        int[] rainfallValues={2346, 1945, 2060, 1781, 2365, 1005, 1162, 1016, 1512, 2231, 1903,
12061, 1005, 1545,2156, 2037, 1583, 3668};
        int count=0;
        for(int value:rainfallValues){

```

```

        if(value>2000){
            count++;
        }
    }
    System.out.println("Number of districts with more than 2000mm :"+count);
}
}

```

```

iv) import java.util.*;
class Example{
    public static void main(String args[]){

        int[] rainfallValues={2346, 1945, 2060, 1781, 2365, 1005, 1162, 1016, 1512, 2231, 1903,
12061, 1005, 1545,2156, 2037, 1583, 3668};
        int countless=0;
        for(int value:rainfallValues){
            if(value<1000){
                countless++;
            }
        }
        System.out.println("Number of districts with less than 1000mm :"+countless);
    }
}

```

```

v) import java.util.*;
class Example{
    public static void main(String args[]){

        int[] rainfallValues={2346, 1945, 2060, 1781, 2365, 1005, 1162, 1016, 1512, 2231, 1903,
12061, 1005, 1545,2156, 2037, 1583, 3668};
        double total=0;
        double avg=0;
        for(int i=0;i<rainfallValues.length;i++){
            total+=rainfallValues[i];
            avg=total/rainfallValues.length;
        }
        System.out.println("Average annual rainfall values of all districts. :"+avg);
    }
}

```

```
}  
}
```

09) A , B , D , E

```
12) i) import java.util.*;  
class Example{  
    public static void main(String args[]){  
        Scanner input=new Scanner(System.in);  
        int[] marks=new int[9];  
        for(int i=0;i<9;i++){  
            System.out.print("Input marks for Student "+(i+1)+" :");  
            marks[i]=input.nextInt();  
        }  
  
        int total=0;  
        for(int i=0;i<9;i++){  
            total+=marks[i];  
        }  
        System.out.println("Total marks of Students : "+total);  
  
    }  
}
```

```
ii) import java.util.*;  
class Example{  
    public static void main(String args[]){  
        Scanner input=new Scanner(System.in);  
        int[] marks=new int[9];  
        for(int i=0;i<9;i++){  
            System.out.print("Input marks for Student "+(i+1)+" :");  
            marks[i]=input.nextInt();  
        }  
  
        double avg=0;
```



```

        int total=0;
        for(int i=0;i<9;i++){
            total+=marks[i];
            avg=total/9;
        }
        System.out.println("Average marks of Students : "+avg);

    }
}

```

```

iii) import java.util.*;
class Example{
    public static void main(String args[]){
        Scanner input=new Scanner(System.in);
        int[] marks=new int[9];
        for(int i=0;i<9;i++){
            System.out.print("Input marks for Student "+(i+1)+" :");
            marks[i]=input.nextInt();
        }

        int min=marks[0];
        for(int i=0;i<9;i++){
            if(marks[i]<min){
                min=marks[i];
            }
        }
        System.out.println("Minimum marks of Students : "+min);

    }
}

```

```

iv) import java.util.*;
class Example{
    public static void main(String args[]){
        Scanner input=new Scanner(System.in);
        int[] marks=new int[9];

```

```

        for(int i=0;i<9;i++){
            System.out.print("Input marks for Student "+(i+1)+" :");
            marks[i]=input.nextInt();
        }

        int max=marks[0];
        for(int i=0;i<9;i++){
            if(marks[i]>max){
                max=marks[i];
            }
        }
        System.out.println("Maximum marks of Students : "+max);

    }
}

v) import java.util.*;
class Example{
    public static void main(String args[]){
        Scanner input=new Scanner(System.in);
        int[] marks=new int[9];
        for(int i=0;i<9;i++){
            System.out.print("Input marks for Student "+(i+1)+" :");
            marks[i]=input.nextInt();
        }

        int count=0;
        for(int value:marks){
            if(value>75){
                count++;
            }
        }

        System.out.println("How many marks are greater than 75 : "+count);

    }
}

```

```

vi) import java.util.*;
class Example{
    public static void main(String args[]){
        Scanner input=new Scanner(System.in);
        int[] marks=new int[9];
        for(int i=0;i<9;i++){
            System.out.print("Input marks for Student "+(i+1)+" :");
            marks[i]=input.nextInt();
        }

        int count=0;
        for(int value:marks){
            if(value<45){
                count++;
            }
        }

        System.out.println("How many marks are less than 45 : "+count);

    }
}

```

```

vii) import java.util.*;
class Example{
    public static void main(String args[]){
        Scanner input=new Scanner(System.in);
        int[] marks=new int[9];
        for(int i=0;i<9;i++){
            System.out.print("Input marks for Student "+(i+1)+" :");
            marks[i]=input.nextInt();
        }

        boolean has100Mark = false;
        for (int value : marks) {
            if (value == 100) {
                has100Mark = true;
                break;
            }
        }
    }
}

```

```
}  
if (has100Mark) {  
    System.out.println("The student gets 100 marks in at least one subject.");  
} else {  
    System.out.println("The student does not get 100 marks in any subject.");  
}  
  
}  
}
```