Java Programs for internal assessment

Q1.(20 unique random numbers between 1 to 100).

public class P1

{

public static void main(String args[])

{

int max = 100;

int min = 1;

int range = max - min + 1;

for(int i=1;i<21;i++)

{

int rand = (int)(Math.random() \* range) + min;

System.out.println(rand);

}

}

}

Q2.(Floyds triangle)

public class P2

{

public static void main(int n)

{

int number=1;

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

{

for(int j=1;j<=i;j++)

{

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

number++;

}

System.out.println();

}

}

}

Q3.(Q5 of the internal assignment)

public class P3

{

public static void main(int n, int a)

{

switch(a)

{

case 1:

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

{

for(int j=1;j<=i;j++)

{

System.out.print(j);

}

System.out.println();

}

break;

case 2:

for(int i=97+n;i>=97;i--)

{

for(int j=97;j<=i;j++)

{

System.out.print((char)j);

}

System.out.println();

}

break;

default:

System.out.println("number error");

break;

}

}

}

Q4.(The series one, with two series in one program Q9)

public class P68

{

public static void main(int x, int a)

{

int j=0;

switch(a)

{

case 1:

for(int i=2;i<=20;i+=3)

{

j= (x/i);

System.out.println(j);

}

break;

case 2:

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

{

if(i%4==0)

{

j=j-i;

}

else

{

j=i+j;

}

}

System.out.println(j);

break;

default:

System.out.println("Wrong input");

}

}

}