Task\_22\_May\_2024 Class Work

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| //1. Write a program to print all numbers from 1 to 100 i.e. 1 2 3 4 5 6 7 . . . 98 99 100  class Task\_1{  public static void main(String args[]){    int n;  for(n=1;n<=100;n++)  {  System.out.print(n+ " ");  }  }  } |
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| // 2. Write a program to print alternate numbers starting from 1 to 99 i.e. 1 3 5 7 9 11 13 . . . 95 97 99  class Task\_2{  public static void main(String args[]){  int n;  for(n=1;n<=100;n++)  {  if(n%2==1)  {  System.out.print(n+ " ");  }  }  }  } |
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| // 3. Write a program to print alternate numbers starting from 0 to 100 i.e. 0 2 4 6 8 10 12 . . . 96 98 100  class Task\_3{  public static void main(String args[]){  int n;  for(n=0;n<=100;n++)  {  if(n%2==0)  {  System.out.print(n+ " ");  }  }  }  } |
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| // 4. Write a program to print all numbers backwards from 100 to 0 i.e. 100 99 98 97 96 . . . 4 3 2 1 0  class Task\_4{  public static void main(String args[]){  int n;  for(n=100;n>=0;n--)  {    System.out.print(n+ " ");    }  }  } |
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| // 5. Write a program to print numbers backwards from 100 to 1 by skipping 2 numbers i.e.  // 100 97 94 91 88 85 82 79. . . 22 19 16 13 10 7 4 1  class Task\_5{  public static void main(String args[]){  int n;  for(n=100;n>=0;n=n-3)  {    System.out.print(n+ " ");    }  }  } |
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Task\_22\_May\_2024 Home Work

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| // Q1. Write a java program to print number from -5 to 5  // -5 -4 -3 -2 -1 0 1 2 3 4 5  class HomeWork\_1{  public static void main(String args[]){  int n;  for(n=-5;n<=5;n++)  {    System.out.println(n+ " ");    }  }  } |
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| // Q2. Write a java program to print number from 100 to 91  // 100 99 98 97 96 95 94 93 92 91  class HomeWork\_2{  public static void main(String args[]){  int n;  for(n=100;n>=91;n--)  {  System.out.println(n+ " ");  }  }  } |
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| // Q3. Write a program to print alternate number from 80 To 70.  // 80 skip 78 skip 76 skip 74 skip 72 skip 70  class HomeWork\_3{  public static void main(String args[]){  int n;  for(n=80;n>=70;n=n-2)  {  System.out.println(n+ " ");  System.out.println("skip");  }  }  } |
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| // Q4. Write a program to print Sqaure of Even number from 10 To 20  // 10 Square is : 100  // 12 Square is : 144  // 14 Square is : 196  // 16 Square is : 256  // 18 Square is : 324  // 20 Square is : 400  class HomeWork\_4{  public static void main(String args[]){  int n;  for(n=10;n<=20;n++)  {  if(n%2==0)  {  System.out.println(n+ " Square is : "+ (n\*n));    }  }  }  } |
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| // Q5. Write a program to print cube of odd number from 1 to 10.  // Cube of 1 = 1  // Cube of 3 = 27  // Cube of 5 = 125  // Cube of 7 = 343  // Cube of 9 = 729  class HomeWork\_5{  public static void main(String args[]){  int n;  for(n=1;n<=10;n++)  {  if(n%2==1)  {  System.out.println("Cube of "+n +" = "+ (n\*n));  }  }  }  } |
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| // Q7. Write a program to input a number. Check and display whether it is a Niven  // number or not. (A number is said to be Niven which is divisible by the sum of its digits).  // Example: Sample Input 126  // Sum of its digits = 1 + 2 + 6 = 9 and 126 is divisible by 9.  import java.util.Scanner;  class HomeWork\_7{  public static void main(String args[]){  int n;  Scanner shani=new Scanner(System.in);  System.out.printf("Sample Input : ");  n=shani.nextInt(); //126  int a=n/100; // a=1  int b=(n%100)/10; //b=2  int c=(n%10)%10; //c=6  System.out.println("Sum of its digits = "+a+" + "+b+" + " +c+ " = "+(a+b+c)+ " " +n +" is divisible by " +(a+b+c));  }  } |
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| // Q8. Write a program to accept a number and check whether it is a &#39;Spy Number&#39; or  // not. (A number is spy if the sum of its digits equals the product of its digits.)  // Example: Sample Input: 1124  // Sum of the digits = 1 + 1 + 2 + 4 = 8  // Product of the digits = 1\*1\*2\*4 = 8  import java.util.Scanner;  class HomeWork\_8{  public static void main(String args[]){  int n;  Scanner shani=new Scanner(System.in);  System.out.printf("Sample Input : ");  n=shani.nextInt(); //1124  int a=n/1000; // a=1  int b=(n%1000)/100; //b=1  int c=((n%1000)%100)/10; //c=2  int d=((n%1000)%100)%10; //c=4  System.out.println("Sum of its digits "+a+" + "+b+" + " +c+ " + "+d+" = "+(a+b+c+d));  System.out.println("Product of the digits "+a+" \* "+b+" \* " +c+ " \* " +d+" = "+(a\*b\*c\*d));  // System.out.println("Sum of its digits = "+a+" + "+b+" + " +c+ " = "+(a+b+c)+ " " +n +" is divisible by " +(a+b+c));  }  } |
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| // Q9. A special two-digit number is such that when the sum of its digits is added to the  // product of its digits, the result is equal to the original two-digit number.  // Example: Consider the number 59.  // Sum of digits = 5 + 9 = 14  // Product of digits = 5 \* 9 = 45  // Sum of the sum of digits and product of digits = 14 + 45 = 59  import java.util.Scanner;  class HomeWork\_9{  public static void main(String args[]){  int a;  Scanner shani=new Scanner(System.in);  System.out.printf("Consider the number : ");  a=shani.nextInt();  int b=a/10;  int c=a%10;  System.out.println("Sum of digits = "+b+ " + "+c+" = "+(b+c));  System.out.println("Sum of digits = "+b+ " \* "+c+" = "+(b\*c));  }  } |
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