

Module 5: Do while Programming



Program

Logic

Syntax

Programs To Practice On Do While Loop

- 1. WAP to input a number & print the sum of its digit.
- 2. WAP to input a number & print the product of its digit.
- 3. WAP to input a number & print all the even digits.
- 4. WAP to input a number & print its maximum digit.
- 5. WAP to input a number & print it in reverse.
- 6. WAP to input a number & check whether it is Armstrong or not.
- 7. WAP to input a number & check whether it is Palindrome or not.
- 8. WAP to input a number & check whether it is Automorphic or not.
- 9. WAP to input a number & print its HCF using long division method.
- 10. WAP to input a number & print its LCM, without using HCF.
- 11. WAP to input a number and check whether it is a perfect square or not.

```
1. import java.util.*;
class sum
  public static void main(String[] Args)
     int n,d,s=0;
     Scanner sc= new Scanner(System.in);
     System.out.println("Enter a number");
     n=sc.nextInt();
     do
       d=n%10;
       s=s+d;
       n=n/10;
     }while(n>0);
     System.out.println("Sum of digits is "+s);
```

```
2. import java.util.*;
class product
  public static void main(String[] Args)
     int n,d,p=1;
     Scanner sc= new Scanner(System.in);
     System.out.println("Enter a number");
     n=sc.nextInt();
     do
       d=n%10;
       p=p*d;
       n=n/10;
     }while(n>0);
     System.out.println("Product of digits is "+p);
```

```
3. import java.util.*;
class even
  public static void main(String[] Args)
     int n,d;
     Scanner sc= new Scanner(System.in);
     System.out.println("Enter a number");
     n=sc.nextInt();
     do
       d=n%10;
       if(d\%2==0)
          System.out.println(d);
       n=n/10;
     }while(n>0);
```

```
4. import java.util.*;
class maximum
  public static void main(String[] Args)
     int n,d,max=0;
     Scanner sc= new Scanner(System.in);
     System.out.println("Enter a number");
     n=sc.nextInt();
     do
       d=n%10:
       if(d>max)
          max=d;
       n=n/10;
     }while(n>0);
     System.out.println("Maximum digit is "+max);
```

```
5. import java.util.*;
class reverse
  public static void main(String[] Args)
     int n,d,r=0;
     Scanner sc= new Scanner(System.in);
     System.out.println("Enter a number");
     n=sc.nextInt();
     do
       d=n%10;
       r=r*10+d;
       n=n/10;
     }while(n>0);
     System.out.println(r);
```

```
6. import java.util.*;
class palindrome {
  public static void main(String[] Args) {
     int n,d,r=0,t;
     Scanner sc= new Scanner(System.in);
     System.out.println("Enter a number");
     n=sc.nextInt();
     t=n;
     do {
       d=n%10;
       r=r*10+d;
       n=n/10;
     }while(n>0);
     if(t==r)
       System.out.println("Palindrome Number");
     else
       System.out.println("Not a Palindrome Number");
```

```
8. import java.util.*;
7. import java.util.*;
                                                              class gcd {
class Armstrong {
  public static void main(String[] Args)
                                                                public static void main(String[] Args) {
                                                                   int a,b,r,t;
     int n,d,s=0,t;
                                                                   Scanner sc= new Scanner(System.in);
     Scanner sc= new Scanner(System.in);
                                                                   System.out.println("Enter two numbers");
     System.out.println("Enter a number");
     n=sc.nextInt();
                                                                   a=sc.nextInt();
                                                                   b=sc.nextInt();
     t=n;
                                                                   if(a>b){
     do {
                                                                     t=a:
       d=t\%10;
                                                                     a=b:
       s=s+(d*d*d);
       t=t/10;
                                                                     b=t:
     }while(t>0);
                                                                   do {
     if(n==s)
       System.out.println("Armstrong Number");
                                                                      r=a%b;
     else
                                                                      b=a;
       System.out.println("Not a armstrong number");
                                                                      a=r:
                                                                   }while(b%a!=0);
                                                                   System.out.println("GCD is "+a);
```

```
10. import java.util.*;
9. import java.util.*;
                                                              class lcm {
class Automorphic {
  public static void main(String[] Args)
                                                                public static void main(String[] Args) {
                                                                   int a,b,m,t;
     int c=0,sqr;
                                                                   Scanner sc= new Scanner(System.in);
     Scanner sc= new Scanner(System.in);
                                                                   System.out.println("Enter two numbers");
     System.out.println("Enter a number");
     int n=sc.nextInt();
                                                                   a=sc.nextInt();
                                                                   b=sc.nextInt();
     sqr=n*n;
                                                                   if(a<b) {
     int t=n;
                                                                     t=a:
     do
                                                                     a=b:
       C++:
       t=t/10;
                                                                     b=t:
     }while(t>0);
     double lastsquaredigits = sqr%(Math.pow(10,c));
                                                                   m=a;
     if(n==lastsquaredigits)
                                                                   do
       System.out.println("Automorphic Number");
     else
                                                                     m=m+a;
                                                                   } while(m%b!=0);
       System.out.println("Not a Automorphic number");
                                                                   System.out.println("LCM Is"+m);
```

```
11. import java.util.*;
class perfect_square {
  public static void main(String[] Args) {
     int n, s=0, i=1;
     Scanner sc= new Scanner(System.in);
     System.out.println("Enter a number");
     n=sc.nextInt();
     do {
       s=i*i;
       if(s == n) {
        System.out.println("Perfect Square");
        break:
       else if(s>n){
       System.out.println("Not a Perfect Number");
      else{
       i++;
    }while(s<=n);</pre>
```