```
program 1
 olaus hello-woold
 l public static word main (String al)
  system out println ("Hello World");
Rogram 2
clair prime_num
                         main (String [ Jargs)
   public stalic void
   int number = 12;
   boolean is Prime = true;
     if (number <= 1) {
     ie Prime = falle;
   Jelee E
    for Cint 1 = 2; 1 x number; 1++){
     of Commber 1/01 == 0) {
i Prime = false;
      bruak;
 of (in Prime) {
System. out. Println (number t "in a prime number");
  elee [
System out PrintlnCnumbert "à not a prime number");
```

```
Pagram 3
         Abonacel jours 1
       public static void main (Strings [] augs) (
           nd no 10;
           14 Cangrillingth >0)[
              n = Intigir, parce Int Cargo [0]);
           Int aro, beli
           System, out, print in C"Fibonacci Succe: ");
          46, (int 1.0; IXn; 1++)[
              System. out. printly (a) !
              Int mat = atb;
              b: next;
Program 4.
    Clau Triangle Type
        public static void main (String () args) [
        double a = 3;
        double b = 4;
        double c = 5;
        1f (ax=0116 =011 cx=0) {
           System out println ("Side lengths positive be positive.");
       Straing type
       if (a'==6 se b==c) {
          Type = 'equitational';
      Jelee 1+ (a==b) 11 b== c 11 a==c) $
      July " " " " " " ( )
         type = scaline;
```

```
system. out. println ("The triangle with side fat," + bt, and
 act is + type+".");
Krogram 5
 Claus Simple Intocest [
    public static void main ( String [Jargs) {
    double principal = 1000;
    double rate 2 5;
    double time = 3;
    double intout = (principal * rate * time) / 100;
    System. out. println ("Simple Interest: " + interest);
Program 6
   Clau SwapNum {
      public static void main (String [] args) [
      int a = 5;
      1nt b = 10;
     System, out, print in ("Before Swapping: a="+a+", b="+b)
      int temp = a;
      a= b;
      b= tump;
     System.out.printlnC"After Swapping: a = "+a+", b = "+b);
```