**PL ASSIGNMENT 4**

**1)**

**Pseudocode**

Begin

numeric radius , area ;

Accept radius ;

area = 3.14\*radius\*radius;

Display “radius”;

End

**Algorithm**

START

INITIALIZE two integers  radius , area ;

ACCEPT radius

area = 3.14\*radius\*radius

PRINT area

STOP

2)

**Pseudocode**

Begin

numeric i=1, product , num ;

Display “Enter number”

Accept num

While (i<=10)

Begin

     product = num \* i;

     Display “product”

     i++;

End

End

**ALGORITHM**

START

Declare three integers i, product , num ;

INITIALIZE i to 1

PRINT “Enter number”

Accept num

REPEAT While (i<=10)

Begin

     product = num \* i;

     PRINT “product”

     Increment i++;

End

STOP

**3)**

**Pseudocode**

Begin

numeric i=1,num,sum=0;

Display “Enter number”

Accept num

While(i<=n/2)

Begin

if(num%i==0)

begin

sum=sum+i

end

End

If(sum==num)

Begin

Display “num is perfect number”

End

Else

Begin

Display “num is not perfect number”

End

End

**3)**

**ALGORITHM**

START

Declare three integers i,num,sum;

INITIALIZE i to 1 and sum to 0

PRINT “Enter number”

Accept num

REPEAT While(i<=n/2)

Begin

if(num%i==0)

Begin

sum=sum+i

End

End

if( sum==num)

Begin

PRINT “num is a perfect number.”

End

Else

Begin

PRINT “num is not a perfect number.”

End

End

**4)**

**Pseudocode**

Begin

numeric i=1, product , num ;

Display “Enter number”

Accept num

While (i<=10)

Begin

     product = num \* i;

     Display “product”

     i++;

End

End

**ALGORITHM**

START

Declare three integers i, product , num ;

INIALIZE i to 1;

PRINT Enter Number

Accept num

REPEAT While (i<=10)

Begin

     product = num \* i;

     PRINT product

     i++;

End

STOP

**5)**

**Pseudocode**

Begin

numeric num  , i=1;

Display “Enter number”

Accept num

While ( i<=i/2)

Begin

if (i\*i=num )

  Begin

  Display “It is a perfect square”

  End

Else

   Begin

   Display “It is not a perfect square”

   End

i++

End

**ALGORITHM**

START

Declare two integers num , i;

INITIALIZE i to 1

PRINT “Enter number”

Accept num

REPEAT While ( i<=i/2)

Begin

if (i\*i=num )

  Begin

  PRINT “It is a perfect square”

  End

Else

   Begin

   PRINT “It is not a perfect square”

   End

Increment i++

STOP

**6)**

**Pseudocode**

Begin

numeric num1 , num2 , num3 ;

Accept num1 , num2 , num3

If (num1<num2 && num1<num3)

                 Begin

                 Display “num1 is lowest”

                 End

 Else if (num2<num3)

                 Begin

                 Display “ num2 is lowest”

                 End

Else

                 Begin

                 Display “num3 is lowest”

                 End

End

**ALGORITHM**

START

Declare three integers num1 , num2 , num3 ;

Accept num1 , num2 , num3

If (num1<num2 && num1<num3)

                 Begin

                 PRINT “num1 is lowest”

                 End

 Else if (num2<num3)

                 Begin

                 PRINT “ num2 is lowest”

                 End

Else

                 Begin

                 PRINT “num3 is lowest”

                 End

STOP

**7)**

**Pseudocode**

Begin

numeric num1 , num2;

Display “ Enter two numbers”

Accept num1 , num2

num1= num1 + num2

num2= num1 - num2

num1 = num1 - num2

Display “ Swapped values: num1, num2”

End

**ALGORITHM**

START

Declare two integers num1 , num2;

PRINT “ Enter two numbers”

Accept num1 , num2

num1= num1 + num2

num2= num1 - num2

num1 = num1 - num2

PRINT “ Swapped values: num1, num2”

STOP