**1.Take a number as input and print the multiplication table for it**

#include<stdio.h>

#include<stdlib.h>

int main()

{

Int a,b,c,i;

Printf(“Enter a number:”);

Scanf(“%d”,&a);

Printf(“Enter the maximum multiplexer:”);

Scanf(“%d”,&b);

for(i=0;i<=b;i++){

c=a\*i;

printf(“%d\n”,c);

}

}

**Flowchart**

start

Input num

Input max\_mult

for i=0,i<=max\_math,

c=num\*i

i++

Output c

stop

**Pseudocode**

Start

Input num

Input max\_mult

for i=0,i<=max\_mult,i++

c=num\*i

output c

stop

**2.Take 2 numbers as inputs and find their HCF and LCM**

**Program**

#include<stdio.h>

#include<stdlib.h>

int main()

{

int a,b,n1,n2,temp,hcf,lcm;

printf(“Enter teo numbers:\n”);

scanf(“%d \t %d”,&a,%b);

n1=a;

n2=b;

while(n2!=0){

temp=n2;

n2=n1%n2;

n1=temp;

}

hcf=n1;

lcm=(a\*b)/hcf;

printf(“The hcf of %d and %d is %d \n”,a,b,hcf);

printf(“The lcm of %d and %d is %d\n”,a,b,lcm);

return 0;

}

**Flowchart**

start

Output hcf

Output lcm

hcf=n1

lcm=(a\*b)/hy

n 1=a,n2=b

while(n2!=0)

temp=n2

n2=n1%n2

n1=temp

Input a,b

stop

**Pseudocode:**

Start

Input a,b

n 1=a

n2=b

while n2 !=0

temp=n2

n2=n1%n2

n1=temp

hcf=n1

lcm=(a\*b)/hcf

output hcf

output lcm

stop

**3.Keep taking numbers as inputs till the user enters “x”, after that print sum of all**

**Program**

**#include<stdio.h>**

**#include<stdlib.h>**

**int main()**

**{**

**Int a,x,b;S**

**b=0;**

**x=0;**

**printf(“Enter a number:”);**

**scanf(“%d”,&a);**

**while(a !=x){**

**b+=a;**

**printf(“Enter a number:”);**

**scanf(“%d”,&a);**

**}**

**Printf(“sum is %d”,b);**

**Return 0;**

**}**

**Flowchart**

start

Output b

While(a!=x)

B+=a

Input a

Input a,x=0

stop

**Pseudocode**

Start

Input a

X=0

While a !=x

b+=a

Input a

Output b

stop

**4.finding area of the square**

**Program**

Import java.util.scanner;

Public class AreaSquare{

Public static void main(string[] args){

Scanner ob1=new Scanner(syatem.in);

System.out.println(“enter length of square L:”);

int L=ob1.nextint();

int area=L\*L;

system.out.println(“area of square is:”+area);

}

}

**Flowchart**

start

Write area

Area=L\*L

Read L

stop

**Pseudocode**

Width to 0.0

Set length to 0.0

Set area to 0.0

Set

Print “this program calculates the area of a rectangle”

Print “enter the width”

Read width

Print “enter the length”

Read length

Area=(width\*length)

Print “the area of the rectangle is:”,area,”(square units).”

end

**5.finding area of the rectangle**

Import java.util.scanner;

Public class AreaRectangle{

Public static void main(string[] args){

Scanner ob1=new scanner(system.in);

System. out. Println (“enter side length a:”);

int a=ob1.nextint();

System .out. println (“enter side length b:”);

Int b=ob1.nextint();

Int area=a\*b;

System .out.println (“area of rectangle is:”+area);

}

}

**Flowchart**

start

Read a

Read b

Area=a\*b

Write area

stop

**Pseudocode**

Begin

Read base ,height

Compute the product of base and height

Set the result to temp

Compute the division of temp with 2

Set the result to area

Display “area of triangle=”,area

SSSend