Task 1

#include<iostream>

#include<cmath>

using namespace std;

int main(){

int y=1 ;

do{

cout<<"enter a number";

cin>> y;

}

while(y>0);

}

Task 2

int main(){

double x,y,result ;

char ope;

do{

cout<<"enter x" ;

cin>> x ;

cout<<"enter y ";

cin>> y ;

cout<<"enter the operator";

cin>> ope ;

switch(ope)

{

case'+':

result=x+y ;

cout<<result ;

break ;

case'-':

result=x-y ;

cout<<result ;

break ;

case'\*':

result=x\*y ;

cout<<result ;

break ;

case'/':

result=x/y ;

cout<<result ;

break ;

case'^':

result= pow(x,y);

cout<<result ;

break ;

case'%':

result=fmod(x,y) ;

cout<<result ;

break ;

}

cout<<"if you want to continue press a , if no then press any other button";

cin>> ope;

}while(ope=='a');

}

Task 3

(a)

int main(){

int sum=0;

int num=2;

while(num<=100){

sum+=num;

num=num+2;

}

cout<<sum;

}

(b)

int main(){

int sum=0;

int num=1;

while(num<=100){

sum+=num\*num;

num++;

}cout<<sum;

}

Task 4

(a)

int main(){

int sum=0;

int x=0;

while(x<=20){

sum+=pow(2,x);

x++;

}

cout<<sum;

}

(b)

int main(){

int sum=0;

int x,y;

cout<<"enter x";

cin>>x ;

cout<<"enter y";

cin >> y ;

int i=x;

while(i<=y){

if(i%2==1){

sum+=i;

}

i++;

}cout<<sum;

}