NUST

Fundamentals of programming

Lab task 5

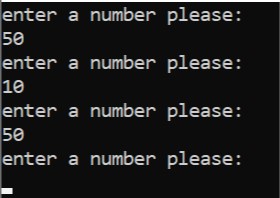


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ME- 15- B

**TASK 1**



int main() {

int s=1;

do {

cout<<"enter a number please: " << endl;

cin>>s;

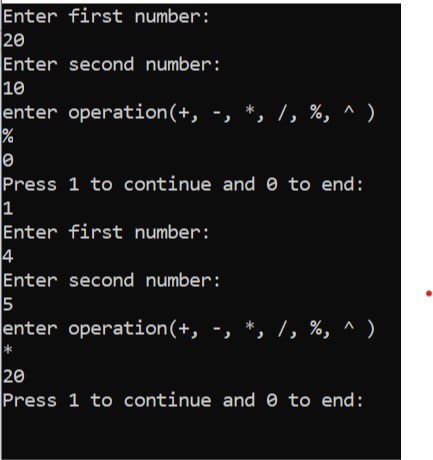
}

while (s>0) ;

return 0;

}

**TASK 2**



int main() {

int number1, number2 , Ans=0 ,i;

char oper;

do {

cout<<"Enter first number: "<<endl;

cin>>number1;

cout<<"Enter second number: "<<endl;

cin>>number2;

cout<<"enter operation(+, -, \*, /, %, ^ )"<<endl;

cin>>oper;

switch (oper) {

case '+':

Ans=number1+number2;

break;

case '-':

Ans=number1-number2;

break;

case '\*':

Ans=number1\*number2;

break;

case '/':

if (number1==0) {

cout<<"Invalid first number."<<endl;

}

Ans=number1/number2;

break;

case '%':

if (number2==0) {

cout<<"Invalid second number."<<endl;

}

Ans=number1%number2;

break;

case '^':

Ans=pow(number1,number2);

default:

cout<<"Invalid operation, please try again"<<endl;

}

cout<<Ans <<endl;

cout<<"Press 1 to continue and 0 to end: "<<endl;

cin>>i;

}

while (i==1);

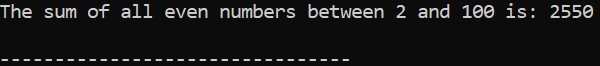
return 0;

}

**TASK 3a**

int main() {

int number=2,Sum=0;

while (number<=100) {

if (number%2==0) {

Sum =Sum+number;

}

number++;

}

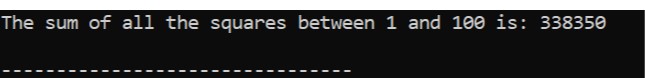
cout<<"The sum of all even numbers between 2 and 100 is: "<<Sum<<endl;

return 0;

}

**TASK 3b**

int main() {

int g=1,total=0;

while (g<=100) {

total=total + g\*g;

y++;

}

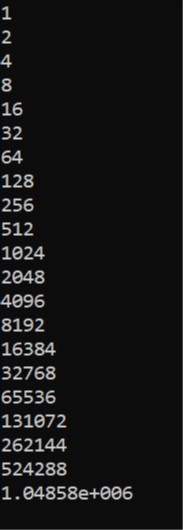
cout<<"The sum of all the squares between 1 and 100 is: "<<total<<endl;

return 0;

}

**TASK 4a**

int main() {

int variable=0;

while (variable<=20) {

cout<<pow(2,variable)<<endl;

+;

}

return 0;

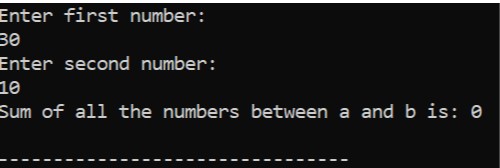
}

**TASK 4b**

int main() {

int a1,b1;

int Total=0;

cout<<"Enter first number: "<<endl;

cin>>a1;

cout<<"Enter second number: "<<endl;

cin>>b1;

while (a1<=b1) {

if (a1%2==1 ) {

Total=Total+a1;

}

a1++;

}

cout<<"Sum of all the numbers between a and b is: "<<Total<<endl;

}