lab task 5

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TASK 1:
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```
#include <iostream>
using namespace std;
int main()
{
 int x=1;
 do{
   cout<<"enter a number:";</pre>
   cin>>x;
 }while(x>0);
}
enter a number:1
enter a number:1
enter a number:-1
...Program finished with exit code 0
Press ENTER to exit console.
```

TASK 2:

#include <iostream>

#include <math.h>

```
using namespace std;
int main()
{
  int a,b,c;
  char ch, R;
  do{
    cout<<"Enter a Number:";
    cin>>a;
    cout<<"Enter a Number:";</pre>
    cin>>b;
    cout<<"enter + for addition,";</pre>
    cout<<"enter - for subtraction,";</pre>
    cout<<"enter * for multiplication,";</pre>
    cout<<"enter / for division,";</pre>
    cout<<"enter % for mod,";</pre>
    cout<<"enter ^ for power"<<endl;</pre>
  cin>>ch;
  switch(ch){
    case '+':cout<<"c="<<a+b<<endl;
    break;
    case '-':cout<<"c="<<a-b<<endl;
    break;
    case '*':cout<<"c="<<a*b<<endl;
    break;
    case '/':cout<<"c="<<a/b<<endl;
    break;
    case '%':cout<<"c="<<a%b<<endl;
    break;
    case '^':cout<<"c="<<pow(a,b)<<endl;</pre>
```

```
break;
   }
   cout<<"press R for restart";</pre>
   cin>>R;
   }
   while(R=='R');
}
       Number:5
for addition,enter - for subtraction,enter * for multiplication,enter / for division,enter % for mod,enter ^ for power
      a Number:5
+ for addition,enter - for subtraction,enter * for multiplication,enter / for division,enter % for mod,enter ^ for power
                         for subtraction, enter * for multiplication, enter / for division, enter % for mod, enter ^ for power
   .Program finished with exit code 0 ess ENTER to exit console.
TASK 3(A):
#include <iostream>
using namespace std;
int main()
   int sum, a=1;
   while(a<=100){
      if(a%2==0)
      sum=sum+a;
      a++;
   }
   cout<<"sum of all even numbers between 2 and 100:"<<sum;
}
```

```
sum of all even numbers between 2 and 100:2550
...Program finished with exit code 0
Press ENTER to exit console.
```

```
TASK 3(B):
using namespace std;
int main() {
int a, b=1;
do{
a=a+b*b;
b++;
}while(b<=100);
cout<<"Sum of all numbers is :"<<a;
}
```

```
Sum of all numbers is :338350
...Program finished with exit code 0
Press ENTER to exit console.
```

```
Task 4(A):
#include <iostream>
#include<cmath>
using namespace std;
int main() {
int p, x=2, y=1;
while(y<=20){}
p=pow(x,y);
y++;
cout<<p<<",";
}
```

```
}

        ✓
        ✓
        ⅓
        input

        2,4,8,16,32,64,128,256,512,1024,2048,4096,8192,16384,32768,65536,131072,262144,524288,1048576,

...Program finished with exit code 0
Press ENTER to exit console.
Task 4(B):
#include<iostream>
using namespace std;
int main()
{
int x, y, z;
cout<<"Enter a number:";</pre>
cin>>x;
cout<<"Enter another number :";</pre>
cin>>y;
while(x \le y){
if(x\%2==1)
z=z+x;
x++;
```

}