ASSIGNMENT - 1(240850320010)

Q.1

```
#include<iostream>
using namespace std;
int main(){
 int a ,b;
   cout<<"Enter the first Number:";
   cin>>a;
   cout<<"Enter the Second Number:";
   cin>>b;
   cout<<"The sum of"<< a <<" "<<"and"<<" "<< b <<" "<<":"<<
a+b;
   return 0;
}
```

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Q.2

```
#include<iostream>
using namespace std;
int areaOfRectangle(int,int);
int perimeterOfRectangle(int,int);

int main(){
int length;
   int width;
   cout<<"Enter the length of rectangle :";
   cin>>length;
   cout<<"Enter the Width of rectangle :";
   cin>>width;
```

```
    int area = areaOfRectangle(length,width);
    int perimeter = perimeterOfRectangle(length,width);

    cout<<"The area of Rectangle is :"<<area<<endl;
    cout<<"The perimeter of Rectangle
is :"<<perimeter<<endl;

    return 0;

}

int areaOfRectangle(int length,int width){
    return length * width;
}
int perimeterOfRectangle(int length,int width){
    return 2*(length+width);
}
```

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Q.3

```
#include<iostream>
using namespace std;
int main(){
 cout<<"Welcome"<<endl;
return 0;
}
```

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Q.4

```
#include<iostream>
using namespace std;

int main(){
cout<<"The size of char is :"<<sizeof(char)<<"
"<<"bytes"<<endl;
   cout<<"The size of short is :"<<sizeof(short)<<" "<<
"bytes"<<endl;
   cout<<"The size of int is :"<<sizeof(int)<<"
"<<"bytes"<<endl;
   cout<<"The size of long is :"<<sizeof(long)<< "
"<<"bytes"<<endl;
   cout<<"The size of long long is :"<<sizeof(long long)<< "
"<< "bytes"<<endl;
   cout<<"The size of float is :"<<sizeof(float)<< "
"<<"bytes"<<endl;
   cout<<"The size of double is :"<<sizeof(double)<<" "<<
"bytes"<<endl;
   cout<<"The size of long double is :"<<sizeof(long
double)<<" "<< "bytes"<<endl;
   cout<<"The size of boolean is :"<<sizeof(bool)<< "
"<<"bytes"<<endl;

return 0;

};
```

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Q.5

```
#include<iostream>
using namespace std;

int main(){
 cout<<"Minimum limit of int :"<< numeric_limits<int>::min()
<<endl;
   cout<<"Maximum limit of int:"<<
numeric_limits<int>::max() <<endl;

   cout<<"Minimum limit of unsigned int:"<<
numeric_limits<unsigned int>::min() <<endl;
   cout<<"Maximum limit of unsigned int:"<<
numeric_limits<unsigned int>::max() <<endl;

   cout<<"Minimum limit of long long :"<<
numeric_limits<long long>::min() <<endl;
   cout<<"Maximum limit of long long :"<<
numeric_limits<long long>::max() <<endl;

   cout<<"Minimum limit of unsigned long long :"<<
numeric_limits<unsigned long long>::min() <<endl;

   cout<<"Maximum limit of unsigned long long :"<<
numeric_limits<unsigned long long>::max() <<endl;

   cout << "The Bits contain in char data type : " <<
sizeof(char) * 8 << endl;

   cout << "The maximum limit of char data type : " <<
static_cast<int>(numeric_limits<char>::max()) << endl;
   cout << "The minimum limit of char data type : " <<
static_cast<int>(numeric_limits<char>::min()) << endl;

   cout << "The maximum limit of signed char data type : "
<< static_cast<int>(numeric_limits<signed char>::max()) <<
```

```
endl;
   cout << "The minimum limit of signed char data type : "
<< static_cast<int>(numeric_limits<signed char>::min()) <<
endl;

   cout << "The maximum limit of unsigned char data type :
" << static_cast<int>(numeric_limits<unsigned
char>::max()) << endl;

   cout << "Minimum limit of short : " <<
numeric_limits<short>::min() << endl;
   cout << "Maximum limit of short : " <<
numeric_limits<short>::max() << endl;

   cout << "Maximum limit of unsigned short : " <<
numeric_limits<unsigned short>::max() << endl;

return 0;
}
```