

Solution of work sheet (1) oop

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1/18/2016

Q6

```
#include<iostream.h>
```

```
void main(){
```

```
int const i=6;
```

```
int a[i],sum=0;
```

```
for (int l=0;i< 1;l++)
```

```
{
```

```
sum+= l;
```

```
cout<<"the sum"<<":"<<sum<<" \n";
```

```
}
```

```
for (l=7;l>=2;l--)
```

```
{
```

```
cout<<l<<endl;
```

```
}}
```

Q 9

```
#include<iostream.h>
```

```
void main(){
```

```
int a[3][3],i,j;
```

```
for(i=0;i<3;i++){
```

```
for(j=0;j<3;j++){
```

```
cin>>a[i][j];}
```

```
for(i=0;i<3;i++){
```

```
for(j=0;j<3;j++){
```

```
if(i+j==2)
```

```
cout<<"0"<<"\t";
```

```
else
```

```
cout <<a[i][j]<<"\t";}
```

```
cout<<"\n";
```

```
}}
```

```
//secondary digonal==0
```

Q3

```
# include<iostream.h>
```

```
int fab(){
```

```
int a=0,b=1,c,n;
```

```
    c=a+b;
```

```
    cin>>n;
```

```
    cout<<a<<"    "<<b<<"    "<<c<<"    ";
```

```
    while(c<n)
```

```
{
```

```
    a=b;b=c; c=a+b;
```

```
    cout<<c<<"    ";
```

```
} }
```

```
main()
```

```
{
```

```
    fab();
```

```
}
```

Q4

```
#include<iostream.h>
void main( )
{
int i=1,c=1;
int b;
cin>>b;
for(int a=1;a<=b;a++){
while(i<=a){
c=c*i;
i++;
}}
cout<<"factorial = "<< c<<endl;
}
```

Q5

```
#include<iostream.h>
```

```
#include<math.h>
```

```
int power(int i,int j){
```

```
int po;
```

```
po=pow(i,j);
```

```
return(po);
```

```
}
```

```
main(){
```

```
int a,b,s;
```

```
cin>>a>>b;
```

```
s=power(a,b);
```

```
cout<<s;
```

```
}
```

Q13

```
#include<iostream.h>
```

```
#include<string.h>
```

```
void main()
```

```
{
```

```
char s[]="ahmed munem hussain",x[]="  ";
```

```
cout<<"your string is: "<<s<<"\n";
```

```
for(int i=0;i<=13;i++)
```

```
cout<<s[i]<<"\n";
```

```
}
```

Q7

```
#include<iostream.h>
```

```
#include<string.h>
```

```
#include<ctype.h>
```

```
void main(){
```

```
char s[]="aHmed muNem hUsSaIn";
```

```
for ( int i=0;i<19;i++)
```

```
{
```

```
    j=toascii(s[i]);
```

```
    if (j<97)
```

```
s[i]=tolower(s[i]);
```

```
else
```

```
s[i]=toupper(s[i]) ;
```

```
}
```

```
cout<<s<<'\n';
```

```
}
```


Q12

```
#include<iostream.h>
```

```
void main(){
```

```
int a[3][3],i,j;
```

```
for(i=0;i<3;i++){
```

```
for(j=0;j<3;j++)
```

```
cin>>a[i][j];}
```

```
int min=a[0][0];
```

```
for(i=0;i<3;i++){
```

```
for(j=0;j<3;j++)
```

```
if(a[i][j]< min)
```

```
min=a[i][j]; }
```

```
cout <<"the min : "<<min<<endl;
```

```
}
```

Q8

```
#include<iostream.h>
```

```
void main()
```

```
{
```

```
int a[3][3],i,j,sum=0;
```

```
for(i=0;i<3;i++){
```

```
for(j=0;j<3;j++)
```

```
cin>>a[i][j];
```

```
}
```

```
for(i=0;i<3;i++){
```

```
for(j=0;j<3;j++)
```

```
cout<<a[i][j]<<" ";
```

```
cout<<'\\n';
```

```
}
```

```
for(i=0;i<3;i++){
```

```
for(j=0;j<3;j++)
```

```
if(a[i][j]%2!=0)
```

```
sum=sum+a[i][j];}
```

```
cout<<"\\nsum= "<<sum;
```

```
}
```

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```
Q16
#include<iostream.h>
int main(){
int *x;
int *p,*q;
int c=100,a;
x=&c;
p=x+2;
q=x-2;
a=p-q;
cout<<"the address of x:"<<x<<"\n";
cout<<"the address of p after incrementing x by 2:"<<p<<"\n";
cout<<"the address of q after decrementing x by 2:"<<q<<"\n";
cout<<"the no of elements between p and q :"<<a<<"\n";
return (0);
}
```

Output:

the address of x:0x1a27246c

the address of p after

incrementing x by 2:0x1a272470

the address of q after

decrementing x by 2:0x1a272468

the no of elements between p and

q :4

Q2

```
#include<iostream.h>
```

```
int average(int );
```

```
void main(){
```

```
int av;  cin>>av;
```

```
cout<<average(av); }
```

```
int average(int x)  {
```

```
int y;
```

```
if((x>=90)&&(x<=100))  y=4;
```

```
else if((x>=80)&&(x<=90))  y=3;
```

```
else if((x>=70)&&(x<=80))  y=2;
```

```
else if((x>=60)&&(x<=70))  y=1;
```

```
else
```

```
y=0;
```

```
return(y);
```

```
}
```

Q15

```
#include<iostream.h>
void main()
{
    float a=3,c=4,sum=a+c,min=a-
c,mul=a*c,div=a/c;
    float *p1,*p2,*p3,*p4;
    cout<<*(p1=&sum)<<'\n';
    cout<<*(p2=&min)<<'\n';
    cout<<*(p3=&mul)<<'\n';
    cout<<*(p4=&div);
}
```

Q1

```
#include<iostream.h>
```

```
#include<string.h>
```

```
int const size=20;
```

```
int upper(char[]);
```

```
void main(){
```

```
char str[size];
```

```
cout<<"enter your string:";
```

```
cin.getline(str,size,'\n');
```

```
cout<<upper(str); }
```

```
int upper(char a[]) {
```

```
int count=0;
```

```
for(int i=0;i<strlen(a);i++)
```

```
if(a[i]>='A'&&a[i]<='Z') count++;
```

```
return(count);
```

```
}
```