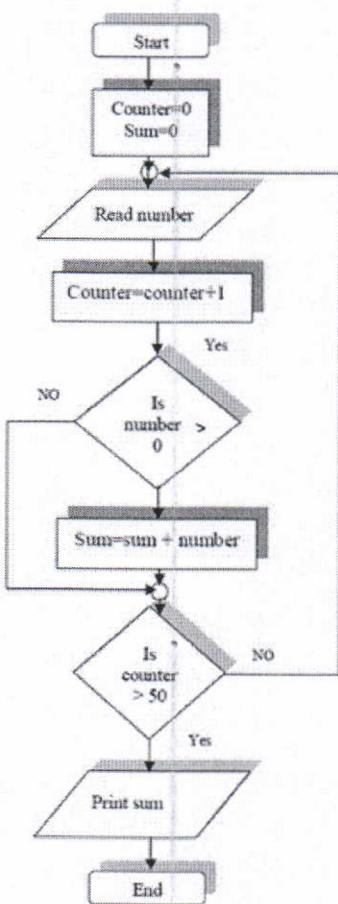


حلوه كورس اسفن
البرمجة المترافقه - 1
C++

Q1:



Q2

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

```
Main()
```

```
{int row =8,column;
```

```
While(row-- >0)
```

```
{ column=8;
```

```
If(row%2==0)
```

```
{Cout<<" ";
```

```
While(column-- >0)
```

```
Cout<<"x";
```

```
}
```

```
else
```

```
While(column-- >0)
    Cout<<"y";
    Cout<<endl;
}
```

Q3

```
#include<iostream.h>

Main()
{
    int i,e=0,j,f=1;
    For(i=1 ;i<=n;i++)
    {
        f=1;
        for(j=1;j<=i;j++)
            f=f*j;
        e=e+i/f;
    }
    Cin>>x;
    e=e+x+1;
    cout<<e;
}
```

Q4 A

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

Main()
{
    int x;
    float y;
    Cin>>x;
    If (x>0)
        Y=pow(x,2)+5*x-20/sqrt(2*x);
```

```
Else
If (x==0)
Y=0;
Else
Y=pow(x,2)+(5*x)*2-10;
Cout<<y;
}
```

Q4 B

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

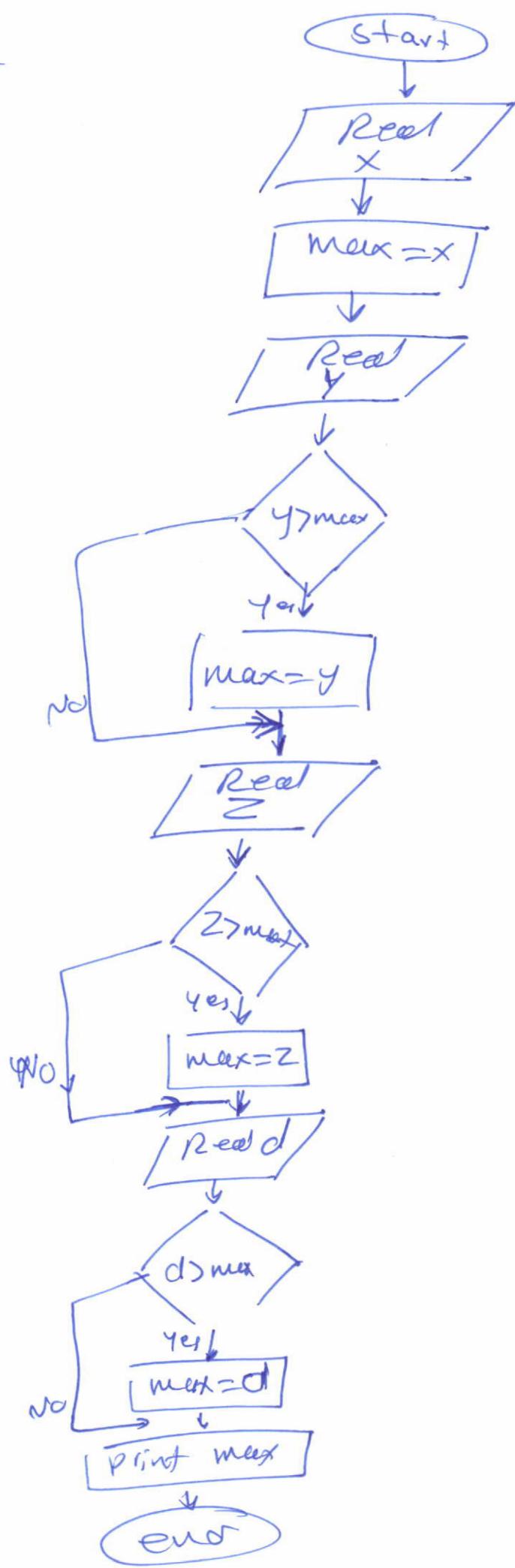
Main()
{int x,y;
Float z;
Cin>>x>>y;
Z=sqrt((pow(x,2)*y-3*sin(x))/(tan(pow(x,3)+pow(x,3)/y)));
Cout<<z;
}
```

Q5 A

14
10
P1
13
P1
13

Q5)B

Q6 A



Q6-B

```
#include<iostream.h>
void main( )
{
    int mark, i, sum = 0;
    float av = 0;
    i = 1;
    while ( i <= 8 )
    {
        cout << "enter mark: ";
        cin >> mark;
        sum = sum + mark;
        i++;
    }
    cout << "sum is: " << sum << endl;
    av = sum / 8;
    cout << "average is: " << av;
}
```