Question 1

Write the function for insertion sort.

Ans).

void insertion\_sort (int a[])

{ int key,j,i;

for(j=1;j<n;j++)

{

key=a[j];

i=j-1;

while(i>0 && a[i]>=key)

{

a[i+1]=a[i];

i--;

}

a[i+1]=key;

}

Question 2

Write a function to find the maximum element in the stack.

Ans).

int pop ()

{

return stack[top--];

}

int max()

{ int m;

int max=stack[top--];

for(int i=top;i>=0;i--)

{

m=pop();

if(m>max)

max=m;

}

return max;

}

Question 3

Write a function to find the minimum element in the stack.

Ans).

int pop ()

{

return stack[top--];

}

int max()

{ int m;

int min=stack[top--];

for(int i=top;i>=0;i--)

{

m=pop();

if(m<min)

min=m;

}

return min;

}