Practise Problem (Overview of C) Lecture -3

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Problem 01:

```c
/*
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*/
#include<stdio.h>
int main()
{
 int a,b,c;
 scanf("%d %d %d",&a,&b,&c);
 printf("%d",a>b?a>c?a:c:b>c?b:c);
 return 0;
}
```

Output:

```
100 70 95
100
Process returned 0 (0x0)   execution time : 6.006 s
Press any key to continue.
```

Problem 02:

```c
/*
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*/
#include<stdio.h>
int main()
{
    int n;
    scanf("%d",&n);
    n%2==0?printf("%d is Even\n",n): printf("%d is Odd\n",n);
    return 0;
}
```

Output:

```
9
9 is Odd

Process returned 0 (0x0)   execution time : 4.635 s
Press any key to continue.
```

Problem 03:

```c
/*
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*/
#include<stdio.h>
int main()
{
 char ch;
 scanf("%c",&ch);
(ch>='a' && ch<='z') || (ch>='A' && ch<='Z')
        ? printf("It is ALPHABET")
        : printf("It is NOT ALPHABET");
    return 0;
}
```

Output:

```
8
It is NOT ALPHABET
Process returned 0 (0x0)   execution time : 3.668 s
Press any key to continue.
```

Problem 04:

```c
/*
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*/
#include<stdio.h>
int main()
{
    int price,n;
    scanf("%d %d",&price,&n);
    printf("Gross salary is %0.2lf ",(1500+(200*n)+(200*n*0.02)));
    return 0;
}
```

Output:

```
5000 10
Gross salary is 3540.00
Process returned 0 (0x0)   execution time : 5.770 s
Press any key to continue.
```

Problem 05:

```c
#include<stdio.h>
#include<math.h>
int main(){
  float a,b,c,d,root1,root2;
  scanf("%f%f%f",&a,&b,&c);
  d = b * b - 4 * a * c;
if(d<0)
    return 0;
  if(d==0){
   root1 = -b /(2* a);
   printf("Both roots are equal : %.3f ",root1);
   return 0;
  }
  else{
   root1 = ( -b + sqrt(d)) / (2* a);
   root2 = ( -b - sqrt(d)) / (2* a);
   printf("Roots of quadratic equation are: %.3f , %.3f",root1,root2);
  }

  return 0;
}
```

Output:

```
2 4 1
Roots of quadratic equation are: -0.293 , -1.707
Process returned 0 (0x0)   execution time : 3.333 s
Press any key to continue.
```