Structural Programming Language Lab

Course Code: CSE 1122

Programming Exercise

1. Write a program that's take a number from keyboard and prints 'YES' if the number is greater than or equal to 50. Otherwise it prints 'NO'.
2. Write a program that takes a number from keyboard and prints 'Correct' if the number is equal to 50. Otherwise it prints 'Other Value'.
3. Write a program that takes a number from keyboard and prints 'Ok' if the number is greater than 60 or number is less than 30. Otherwise it prints 'Not Ok'.
4. Write a program that takes a number from keyboard and prints 'Y' if the number is greater than or equal 30 and less than or equal 40. Otherwise it prints 'No'.
5. Write a program that takes a number from keyboard and prints 'Y' if the number is greater than or equal 30 and not equal to 50. Otherwise it prints 'No'.
6. Write a program that takes a number from keyboard and finds whether the number is positive or negative.
7. Write a program that takes a number from keyboard and finds whether the number is positive, negative or zero.
8. Write a program that finds whether the number is ODD or EVEN.
9. Write a program that finds maximum between two numbers.
10. Write a program that finds minimum between two numbers.
11. Write a program that finds maximum and minimum between two numbers. If the number is equal it gives a message "Equal".

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Programming Exercise (Solve)

1. Write a program that takes a number from keyboard and prints 'YES' if the number is greater than or equal to 50. Otherwise it prints 'NO'.

Solve:
```
#include <stdio.h>
int main()
{
   int x;
   printf("Enter the number=");
   scanf("%d",&x);
   if(x>=50)
      printf("YES");
   else
      printf("NO");
   return 0;
}
```

2. Write a program that takes a number from keyboard and prints 'Correct' if the number is equal to 50. Otherwise it prints 'Other Value'.

Solve:
```
#include <stdio.h>
int main()
{
   int x;
   printf("Enter the number=");
   scanf("%d",&x);
   if(x==50)
      printf("Correct");
   else
      printf("Other value");
   return 0;
}
```

3. Write a program that takes a number from keyboard and prints 'Ok' if the number is greater than 60 or number is less than 30. Otherwise it prints 'Not Ok'.

Solve:
```
#include <stdio.h>
int main()
{
   int x;
   printf("Enter the number=");
   scanf("%d",&x);
   if(x>60||x<30)
      printf("Ok");
   else
      printf("Not Ok");
   return 0;
}
```

4. Write a program that takes a number from keyboard and prints ’Y’ if the number is greater than or equal 30 and less than or equal 40. Otherwise it prints ‘No’.

Solve:
```
#include <stdio.h>
int main()
{
   int x;
   printf("Enter the number=");
   scanf("%d",&x);
   if(x>=30&&x<=40)
      printf("Y");
   else
      printf("No");
   return 0;
}
```

5. Write a program that takes a number from keyboard and prints ’Y’ if the number is greater than or equal 30 and not equal to 50. Otherwise it prints ‘No’.

Solve:
```
#include <stdio.h>
int main()
{
   int x;
   printf("Enter the number=");
   scanf("%d",&x);
   if(x>=30&&x!=50)
      printf("Y");
   else
      printf("No");
   return 0;
}
```

6. Write a program that takes a number from keyboard and finds whether the number is positive or negative.

Solve:
```
#include <stdio.h>
int main()
{
   int x;
   printf("Enter the number=");
   scanf("%d",&x);
   if(x>0)
      printf("Number is Positive");
   else if(x<0)
      printf("Number is Negative");
   return 0;
}
```

7. Write a program that takes a number from keyboard and finds whether the number is positive, negative or zero.

Solve:
```
#include <stdio.h>
int main()
{
   int x;
```

```
   printf("Enter the number=");
   scanf("%d",&x);
   if(x>0)
      printf("Number is Positive");
   else if(x<0)
      printf("Number is Negative");
   else
      printf("Number is zero");
   return 0;
}
```

8. Write a program that finds whether the number is ODD or EVEN.

Solve:
```
#include <stdio.h>
int main()
{
   int x;
   printf("Enter the number=");
   scanf("%d",&x);
   if(x%2==0)
      printf("Number is EVEN");
   else
      printf("Number is ODD");
   return 0;
}
```

9. Write a program that finds maximum between two numbers.

Solve:
```
#include <stdio.h>
int main()
{
   int a,b;
   printf("Enter two numbers=");
   scanf("%d %d",&a,&b);
   if(a>b)
      printf("%d is maximum number",a);
   else
      printf("%d is maximum number",b);
   return 0;
}
```

10. Write a program that finds minimum between two numbers.

Solve:
```
#include <stdio.h>
int main()
{
   int a,b;
   printf("Enter two numbers=");
   scanf("%d %d",&a,&b);
   if(a<b)
      printf("%d is minimum number",a);
   else
      printf("%d is minimum number",b);
   return 0;
```

}

11. Write a program that finds maximum and minimum between two numbers. If the number is equal it gives a message “Equal”.

Solve:
```
#include <stdio.h>
int main()
{
   int a,b;
   printf("Enter two numbers=");
   scanf("%d %d",&a,&b);
   if(a>b)
      printf("%d is maximum number \n%d is minimum number",a,b);
   else if(a<b)
      printf("%d is maximum number \n%d is minimum number",b,a);
      else
         printf("Equal");
   return 0;
}
```