

Practical No:03

Operators, If conditions

Question 01:

```
#include <stdio.h>

int main() {
    int numberOne,numberTwo;

    printf("Enter two numbers: ");
    scanf("%d %d",&numberOne,&numberTwo);

    if (numberOne<numberTwo){
        printf("The highest number is %d",numberTwo);
    }else {
        printf("The highest number is %d",numberOne);
    }

    return 0;
}
```

Question 02:

```
#include <stdio.h>

int main() {
    int numberOne,numberTwo,numberThree;

    printf("Enter three numbers: ");
    scanf("%d %d %d",&numberOne,&numberTwo,&numberThree);

    if (numberOne>numberTwo && numberOne>numberThree){
        printf("The highest number is %d",numberOne);
    }else if (numberTwo>numberOne && numberTwo>numberThree){
        printf("The highest number is %d",numberTwo);
    }else{
        printf("The highest number is %d",numberThree);
    }
    return 0;
}
```

Question 03:

```
#include <stdio.h>

int main() {
    float basicSalary,newSalary;
    char name[20];

    printf("Enter your name: ");
    scanf("%s",&name);
    printf("Enter your basic salary: ");
    scanf("%f",&basicSalary);

    if (basicSalary<5000){
        newSalary=((basicSalary*5)/100)+basicSalary;
    }else if (basicSalary<10000 && basicSalary>=5000){
        newSalary=((basicSalary*10)/100)+basicSalary;
    }else {
        newSalary=((basicSalary*15)/100)+basicSalary;
    }

    printf("%s your new salary id %.2f",name,newSalary);

    return 0;
}
```

Question 04:

```
#include <stdio.h>

int main() {
    float radius;

    printf("Enter the radius of the circle: ");
    scanf("%f",&radius);

    printf("Area is %.1f \n",3.14159*pow(radius,2));
    printf("Diameter is %.1f \n",radius*2);
    printf("Circumference is %.1f \n",2*3.14159*radius);

    return 0;
}
```

Question 05:

```
#include <stdio.h>
```

```
int main() {  
    int numberOne,numberTwo;  
  
    printf("Enter two numbers: ");  
    scanf("%d %d",&numberOne,&numberTwo);  
  
    if (numberOne%numberTwo==0){  
        printf("%d is a multiple of %d",numberTwo,numberOne);  
    }else {  
        printf("%d is NOT a multiple of %d",numberTwo,numberOne);  
    }  
    return 0;  
}
```

Question 06:

```
#include <stdio.h>
```

```
int main() {  
    printf("%d\n",'A');  
    printf("%d\n",'B');  
    printf("%d\n",'C');  
    printf("%d\n",'a');  
    printf("%d\n",'b');  
    printf("%d\n",'c');  
    printf("%d\n",'0');  
    printf("%d\n",'1');  
    printf("%d\n",'2');  
    printf("%d\n','$');  
    printf("%d\n",'*');  
    printf("%d\n",'+');  
    printf("%d\n','/');  
    printf("%d\n",' ');  
  
    return 0;  
}
```

Question 07:

```
#include <stdio.h>
```

```

int main() {
    float basicSalary,increment01,increment02,increment03;
    int years;
    char colombo[4];

    printf("Enter your basic salary: ");
    scanf("%f",&basicSalary);
    printf("Are you working in Colombo (Yes or Not): ");
    scanf("%s",&colombo);
    printf("How many servicing years? :");
    scanf("%d",&years);

    if (strcmp(colombo,"Yes")==0){
        increment01=2500.00;
    }

    if (years>=5){
        increment02=(basicSalary*10)/100;
    }
    if (basicSalary<=25000.00){
        increment03=(basicSalary*10)/100;
    }else if (basicSalary<50000.00){
        increment03=(basicSalary*12)/100;
    }else {
        increment03=(basicSalary*15)/100;
    }

    printf("Your Total salary is %.2f",basicSalary+increment01+increment02+increment03);
    return 0;
}

```