

★ Assignment-3 (Decision Making Structure)\* Batch B

1. Write a program to check whether entered number is even or odd. Print appropriate message. (Use if else)

\* Code:-

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

```
int main()
```

```
{
```

```
    int N;
```

```
    printf ("Enter A Number : ");
```

```
    scanf ("%d", &N);
```

```
    if ((N % 2) == 0)
```

```
    {
```

```
        printf ("Number Is Even ");
```

```
    }
```

```
    else
```

```
    {
```

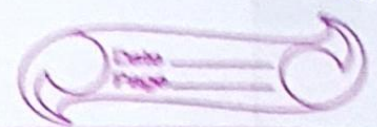
```
        printf ("Number Is Odd ");
```

```
    }
```

```
    return 0;
```

```
}
```





Output:-

Enter A Number : 515253  
Number Is Odd \*

[Software: Code Block]

2. Write a program to check whether the triangle is equilateral or right-angled or scalene triangle. (Use nested if-else)

\* Code:-

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

```
int main()
{
```

```
    int a, b, c;
```

```
    printf("Enter Three Sides Of Triangle : \n");
```

```
    scanf("%d %d %d", &a, &b, &c);
```

```
    if (a == b)
```

```
    {
```

```
        if (b == c)
```

```
        printf("Equilateral Triangle.");
```

```
    }
```

```
    else
```

```
    {
```

```
        if (a*a + b*b == c*c)
```

```
        printf("Right angled Triangle.");
```

```
    }
}
```



```
printf ("Scalene Triangle.");  
}  
return 0;  
}
```

Output:-

Enter Three Sides Of Triangle :

3

3

3

Equilateral Triangle.

[Software: CodeBlock]

3. Write above code using if-else ladder.

\* Code:-

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

```
int main()
```

```
{
```

```
int a, b, c;
```

```
printf ("Enter Three Sides Of Triangle : In ");
```

```
scanf ("%d %d %d", &a, &b, &c);
```

```
if (a == b && b == c)
```

```
{
```

```
printf ("Triangle Is Equilateral.");
```



```

    }
    else if (a*a + b*b == c*c)
    {
        printf("Triangle Is Right-angled.");
    }
    else
    {
        printf("Triangle Is Scalene.");
    }
    return 0;
}

```

Output:-  
 Enters Three Sides Of Triangle :  
 3  
 4  
 5  
 Triangle Is Right-angled.

[Software: Code Block]



4 Read a character from user to print his/her transportation.

Input by user

a or A

b or B

t or T

w or W

Message to be displayed

Air ways

Bus by Road

Train by Road

Water ways

(Use switch case & Merge multiple relevant cases together).

\* Code:-

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

```
int main ()
```

```
{
```

```
    char x;
```

```
    printf("Enter Character:");
```

```
    scanf("%c", &x);
```

```
    switch (x)
```

```
    {
```

```
        case 'a':
```

```
        case 'A':
```

```
            printf("Air ways");
```

```
            break;
```

```
        case 'b':
```

```
        case 'B':
```



```
printf("Bus by Road");  
break;  
case 't':  
case 'T':  
printf("Train by Road");  
break;  
case 'w':  
case 'W':  
printf("Water ways");  
break;  
default:  
printf("Wrong Input");  
}  
return 0;  
}
```

Output:-

Enter character: B  
Bus by Road

[Software: Code Block]

~~Date~~