

1906188

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DA Lab 2.

Q1. Print different type of data

```
x = as.integer(1)
print(typeof(x))
x = as.numeric(1)
print(typeof(x))
x = "Pradyumn"
print(typeof(x))
x = c(1, 2, 3, 4)
print(typeof(x))
```

Output

integer

double

Character

double

Q2. do all the operations on two number.

```
x = as.integer(scanline("x: "));
y = as.integer(scanline("y: "));
print(paste(x, "+", y, "=", x+y));
print(paste(x, "-", y, "=", x-y));
print(paste(x, "/", y, "=", x/y));
print(paste(x, "*", y, "=", x*y));
```

Op:-

x:	9
y:	3
x + y	= 12
x - y	= 6
x / y	= 3
x * y	= 27.

Q3. check if two vectors are equal.

```
v1 = c(1,2,3,4);  
v2 = c(1,2,3,4);  
print(identical(v1, v2));
```

Output

True

Q4. Do operation on two vectors

```
v1 = c(1,0,1,1)  
v2 = c(0,0,1,1)  
for(i in 1:4){  
  print(as.integer(v1[i] & v2[i]))  
}
```

}

Output

0

0

1

1

Q5. multiply 3 to a vector

```
v1 = c(1,0,1,1);
```

```
v1 = v1*3;
```

```
print(v1);
```

Output

3, 0, 3, 3

Q6. print elements vector  $x(80, 100)$ ;

```

v = c(1, 3, 81, 92, 13, 99, 200, 80, 100);
for (x in v) {
  if (x > 80 & x < 100) {
    print(x);
  }
}

```

Output: -

81  
92  
99

Q7. Enter ~~also~~ 3 digit number then print 1st & last digit.

```

num = as.integer(readline("Num: "));
print(num % / % 100);
print(num %% 10);

```

Output:

num: 367.

3

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88. enter a number then search it in a vector.

```
v = c(13, 41, 421, 1, 24, 2, 34, 4, 13, 12, 343);
```

```
num = as.integer(readline("num: "));
```

```
found = FALSE;
```

```
for (x in v) {
```

```
  if (x == num) {
```

```
    print("found");
```

```
    found = TRUE;
```

```
  }
```

```
}
```

```
if (!found) {
```

```
  print("Not found");
```

```
}
```

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