

DATE 3 Oct, 2023

Activity 1: Write a program to demonstrate type checking of various datatypes and demonstrate the use of following built in functions in python. `abs()`, `len()`, `min()`, `round()`, `isalnum()`, `type()`.

```
items = (10, 5, 25, 20, 35)
```

```
Set1 = {10, 5, 25, 20, 35}
```

```
list1 = [2, 3, 4, 5]
```

```
dic = {1:10, 2:20, 3:20, 3:30}
```

```
print(dic)
```

```
a = 23.55555557
```

```
b = -34
```

```
c = 34
```

```
d = 'A'
```

```
str = 'abc123'
```

```
e = int(input('Enter the integer'))
```

input function used to get input from user

int used to convert from str to int

```
print('float value of 34')
```

```
print(float(c))
```

```
print('Hex value of 34')
```

```
print(hex(c))
```

```
print('Binary value of 34')
```

```
print(bin(c))
```

```
print('Hexadecimal value of 34')
```

```
print(hex(c))
```

```
print('Octal value of 34')
```

```
print(Oct(c))
```

```
print('ASCII value of user input')
```

```
print(ord(d))
```


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```

print('bool value of 34')
print(bool(1))
print('Complex value of 34')
print(complex(1))
print('Perform mod operation in 34 and d')
print(divmod(c,e))
print('Convert from list to set')
print(set([1,2,3,2,3,4]))
print('Sorted element of Tuples')
print(sorted(items))
print('Absolute value of -34')
print(abs(b))
print('Round of value of floating point')
print(round(a))
print('Length of str')
print(len(str))
print('Check it is alpha numeric')
print(str.isalnum())
print('Min value of tuples')
print(min(items))
print('Max value of tuples')
print(max(items))
print('type of b var')
print(type(b))

```

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OUTPUT:

```

Type of a: <class 'int'>
Type of b: <class 'float'>
Type of c: <class 'complex'>
Type of d: <class 'str'>
Type of e: <class 'tuple'>
Type of f: <class 'list'>

```

```

Absolute value of -34: 34
Length of string: 6
Min element from item: 5
Roundof value of 23.5555557: 24
Is str isalnum: True
DataType of 32: <class 'int'>

```

>>>