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Section B

1. Write a menu driven Program to enter the number and print whether the number is a. odd or even b. prime.

```
In [1]: flag=0
a=int(input("Enter a number : "))
if(a%2==0):
    print("Even")
else:
    print("Odd")
for i in range(2,a):
    if(a%i==0):
        flag=1
if(flag==1):
    print("Not prime")
else:
    print("Prime")
```

Enter a number : 33

Odd

Not prime

2. Program to find maximum out of entered 3 numbers

```
In [2]: print("Enter three numbers ")
a=int(input("a="))
b=int(input("b="))
c=int(input("c="))
maxi=max(a,b,c)
print("Maximum is ",maxi)
```

Enter three numbers

a=22

b=33

c=44

Maximum is 44

3. Write a program to display ASCII code of a character and vice versa.

```
In [3]: # Main program Loop
while True:
    # Display the menu options
    print("1. Convert character to ASCII code")
    print("2. Convert ASCII code to character")
    print("3. Exit")

    # Ask the user to choose an option
    choice = int(input("Enter your choice: "))

    # If the user chooses to exit, break the Loop
    if choice == 3:
        break

    # Perform the selected operation
    if choice == 1:
        # Ask the user to enter a character
        char = input("Enter a character: ")

        # Convert the character to ASCII code
        code = ord(char)

        # Print the ASCII code
        print("ASCII code of", char, "is", code)
```

```

elif choice == 2:
    # Ask the user to enter an ASCII code
    code = int(input("Enter an ASCII code: "))

    # Convert the ASCII code to character
    char = chr(code)

    # Print the character
    print("Character with ASCII code", code, "is", char)
else:
    print("Invalid choice")

```

1. Convert character to ASCII code
2. Convert ASCII code to character
3. Exit

Enter your choice: 1

Enter a character: e

ASCII code of e is 101

1. Convert character to ASCII code
2. Convert ASCII code to character
3. Exit

Enter your choice: 2

Enter an ASCII code: 43

Character with ASCII code 43 is +

1. Convert character to ASCII code
2. Convert ASCII code to character
3. Exit

Enter your choice: 3

4. Write a Program to check if the entered number is Armstrong or not.

```

In [4]: num = int(input("Enter a number: "))

# initialize sum
sum = 0

# find the sum of the cube of each digit
temp = num
while temp > 0:
    digit = temp % 10

```

```
sum += digit ** 3
temp //= 10

# display the result
if num == sum:
    print(num, "is an Armstrong number")
else:
    print(num, "is not an Armstrong number")
```

Enter a number: 345

345 is not an Armstrong number

In []: